

SONY®

SDTV NON-LINEAR PRODUCTION SYSTEM

DMW-S01NL

HDTV NON-LINEAR PRODUCTION SYSTEM

DMW-S02NL

FIBRE CHANNEL STORAGE UNIT

DMW-ST001

HDTV INTERFACE BOARD

DMW-IF02

MAINTENANCE MANUAL

Volume 1 1st Edition

警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

DMW-S01NL (SY) Serial No. 10001 and Higher

DMW-S02NL (SY) Serial No. 10001 and Higher

DMW-ST001 (SY) Serial No. 10001 and Higher

DMW-IF02 (SY) Serial No. 10001 and Higher

Attention-when the product is installed in Rack:**1. Prevention against overloading of branch circuit**

When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. Providing protective earth

When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. Internal air ambient temperature of the rack

When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. Prevention against achieving hazardous condition due to uneven mechanical loading

When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

Laser diode properties

	Sony Corporation	Matsushita Electronics Corporation
Material	GaAlAs laser diode	GaAlAs laser diode
Wavelength	780nm	790nm ±25nm
Emission duration	Continuous	Continuous
Laser output power	0 to 0.4mW	5mW (max.)
Manufacturer	Sony Corporation	Matsushita-Kotobuki Electronics Ind. Ltd.
Type designation	KSS-575BA	PK-1402

CLASS 1
LASER PRODUCT

LASER KLASSE 1
PRODUKT

This SDTV/HDTV Non-linear Production System is classified as a CLASS 1 LASER PRODUCT.
The CLASS 1 LASER PRODUCT label is located on the left panel.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en likvärdig typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt gällande föreskrifter.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

VAROITUS

Paristo voi räjähtää jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.

Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

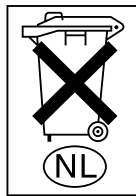
For the customers in the Netherlands Voor de klanten in Nederland

Dit apparaat bevat een MnO₂-Li batterij voor memory back-up.

Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.

Raadpleeg de instructies in deze handleiding voor het verwijderen van de batterijen.

Gooi de batterij niet weg, maar lever hem in als KCA.



ADVARSEL!

Lithiumbatteri-Eksplodingsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandøren.

ADVARSEL

Lithiumbatteri - Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.

Brukt batteri returneres apparatleverandøren.

Für Kunden in Deutschland

Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert "Batterie leer" oder nach längerer Gebrauchsdauer der Batterien "nicht mehr einwandfrei funktioniert". Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

Auf welcher Weise die Batterie abzunehmen ist, siehe den entsprechenden Hinweis in dieser Anleitung.

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Manual Structure

Purpose of this manual

This manual is the Maintenance manual volume 1 of SDTV/HDTV non-linear production system DMW-S01NL/S02NL, fibre channel storage unit DMW-ST001 and HDTV interface board DMW-IF02.

This maintenance manual (Volume 1, 2, 3) is intended for use trained system and service engineers, and provides the information of maintenance and detailed service (using of software, parts replacement, electrical alignment, schematic diagrams, board layouts, and detailed parts list, etc.).

This manual (volume 1) explains about installation of this unit, parts replacement, and upgrading of software.

Related manuals

Besides this “Maintenance manual”, the following manuals are available for this unit.

If these manuals are required, please contact your local Sony Sales Office/Service Center.

- **Operation Manual (CD-ROM) (Supplied with the DMW-S01NL/S02NL)**

This manual is necessary for application and operation (and installation) of this unit.

Part number : 3-631-518-0X

- **Installation Manual (Supplied with the DMW-S01NL/S02NL)**

This manual describes the information on installing of this unit.

Part number : 3-205-070-0X

- **Installation Guide (Supplied with the DMW-ST001)**

This guide describes the information on installing of this unit.

Part number : 3-205-062-0X

3-205-063-0X

- **Installation Guide (Supplied with the DMW-IF02)**

This guide describes the information on installing of this unit.

Part number : 3-205-326-0X

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Communication System Solutions Network Company equipment.

Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

This maintenance manual (volume 1, volume 2, volume 3) is organized by following sections.

Maintenance manual
volume 1
(9-967-930-)

Section 1 Installation

This section explains the information that is required to install (environment, installation space, connection information, initial setting, etc.).

Section 2 DMW-S01NL/DMW-S02NL/DMW-IF02 Service Overview

This section explains fundamental area of the information that is required to service (location of main parts, replacement of cabinet and main parts).

Section 3 DMW-ST001 Service Overview

This section explains fundamental area of the information that is required to service (location of main parts, replacement of main parts, and caution of transportation).

Section 4 Upgrading of Software Version and Reinstallation

This section explains the upgrading of software version and reinstallation.

Maintenance manual
volume 2
(9-967-947-)

Section 5 Using the Utility Software

This section explains the using processes of respective utility software, using by DMW-S01NL/S02NL, DMW-ST001 and DMW-IF02.

Section 6 Troubleshooting

This section explains the error message and troubleshooting of this unit.

Section 7 Electrical Alignment

This section explains the electrical alignment for the maintenance of this unit.

Section 8 Block Diagrams

This section describes the circuit description and block diagrams of each board.

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volume 3
(9-967-937-)

Section 9 Spare Parts

This section describes the exploded views and mechanical parts list and the electrical parts list of each board.

Moreover, describes the electrical parts list (frame electrical parts list) except on the board.

Section 10 Semiconductor Pin Assignments

This section describes information on semiconductors used for the unit.

It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.

Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.

Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 11 Board Layouts

This section describes the board layouts for the unit.

Section 12 Schematic Diagrams

This section describes the frame wiring and schematic diagrams for the unit.

Trademarks

(Volume1 and
Volume2 included)

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Note on system setting

If setting of software or hardware is changed with method that not describes on this manual, can not guarantee the operation of unit.

Section 1

Installation

1-1. Operating Environment

Operating guaranteed temperature : +10 °C to +35 °C
Operating humidity : 20 % to 80 %
(relative humidity)
Storage temperature : -20 °C to +60 °C

Mass :

DMW-S01NL/DMW-S02NL

Main unit (workstation with AV I/O block)	28 kg
Media bar control panel	0.7 kg
Jog & shuttle control panel	0.9 kg
Audio control panel	1.7 kg
Trackball control panel	0.7 kg

DMW-ST001	36 kg
DMW-IF02	0.5 kg

Prohibited locations

- Areas where the unit will be exposed to direct sunlight or any other strong lights.
- Dusty areas
- Areas where it is subject to vibration.
- Areas with strong electric or magnetic fields.
- Areas near heat sources.
- Areas where is subjected to electricity noise.
- Areas where is subjected to static electricity noise.

Ventilation

The inside of the DMW-S01NL/DMW-S02NL/DMW-ST001 is cooled by each fan.

The power supply can be damaged if the exhaust vent (rear panel) and air intake (front panel) are blocked or the fan is stopped.

Therefore, leave a blank space of more than 10 cm in the front and back of the unit.

1-2. Power Supply

1-2-1. Power specifications

A switching regulator is used for the power supply of these units.

• DMW-S01NL/DMW-S02NL

Power requirements : AC 100 to 120 V/AC 220 to 240 V $\pm 10\%$
50/60 Hz
Current consumption : Maximum 3.0 A
(AC 120 V, with all optional boards installed)

• AC Adaptor

(Supplied with DMW-S01NL/DMW-S02NL)

Power requirements : AC 100 to 240 V $\pm 10\%$
50/60 Hz
Current consumption : Maximum 0.75 A (AC 120 V)
Output voltage : 15 Vdc $\pm 1\%$
Output current : 5 A

• DMW-ST001

Power requirements : AC 100 to 240 V $\pm 10\%$
50/60 Hz
Current consumption : Maximum 3.4 A (AC 120 V)

Note

As the inrush current at turn-on is the maximum 25 A (at 100 V)/50 A (at 200 V), the capacity of the AC power must be commensurate in it.

If the capacity of the AC power is not the adequately large, the breaker of the AC power at the supply side will operate or the unit will abnormally operate.

1-2-2. Power Cord

WARNING

- The power cord is not supplied with the DMW-S01NL/DMW-S02NL/DMW-ST001.
Be sure to use the power cord that is applicable to places in the area as shown below.
To avoid a fire or an electric shock, be sure to use the designated power cord.
- Do not damage the power cord.
Otherwise, a fire or electric shock may result.

WARNING

This warning is applicable for USA only.
If used in USA, use the UL LISTED power cord specified below.
DO NOT USE ANY OTHER POWER CORD.

Plug Cap : Parallel blade with ground pin
(NEMA 5-15P Configuration)
Cord : Type SJT, three 18 AWG wires
Length : Less than 2.5 m (8 ft. 3 in.)
Rating : Minimum 10 A, 125 V

Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both.
To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

1. DMW-S01NL/DMW-S02NL and AC Adaptor

Items	USA/CANADA	EUROPE	UK
Receptacle	IEC320 Straight	IEC320 Straight	IEC320 Straight
Plug	NEMA 5-15P	CEE7type VII	BS1363
Cord type	SJT 3 × 18 AWG	HAR 3 × 1.00 mm ²	HAR 3 × 1.00 mm ²
Minimum rating	10 A/125 V	10 A/250 V	10 A/250 V
Length	1500 mm~ 2400 mm	1500 mm~ 2400 mm	1500 mm~ 2400 mm
Safety approval	UL/CSA	HAR	BSI, BASEC

2. DMW-ST001

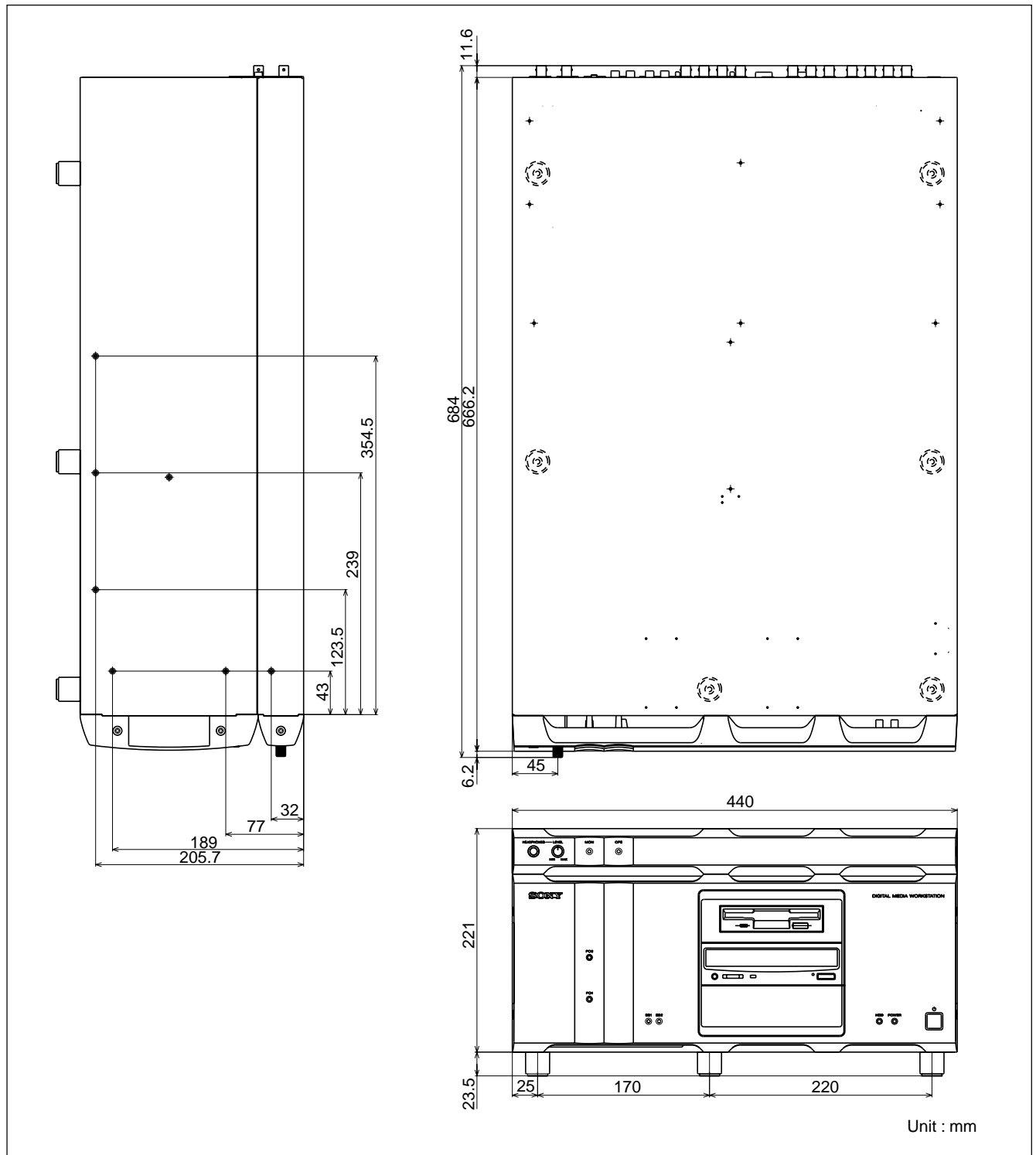
Items	USA/CANADA	EUROPE	UK
Receptacle	IEC320-C13 Right angle	IEC320-C13 Right angle	IEC320-C13 Right angle
Plug	NEMA 5-15P	CEE7type VII	BS1363
Cord type	SJT 3 × 18 AWG	HAR 3 × 1.00 mm ²	HAR 3 × 1.00 mm ²
Minimum rating	10 A/125 V	10 A/250 V	10 A/250 V
Length	1500 mm~ 2400 mm	1500 mm~ 2400 mm	1500 mm~ 2400 mm
Safety approval	UL/CSA	HAR	BSI, BASEC

1-3. Installation Space

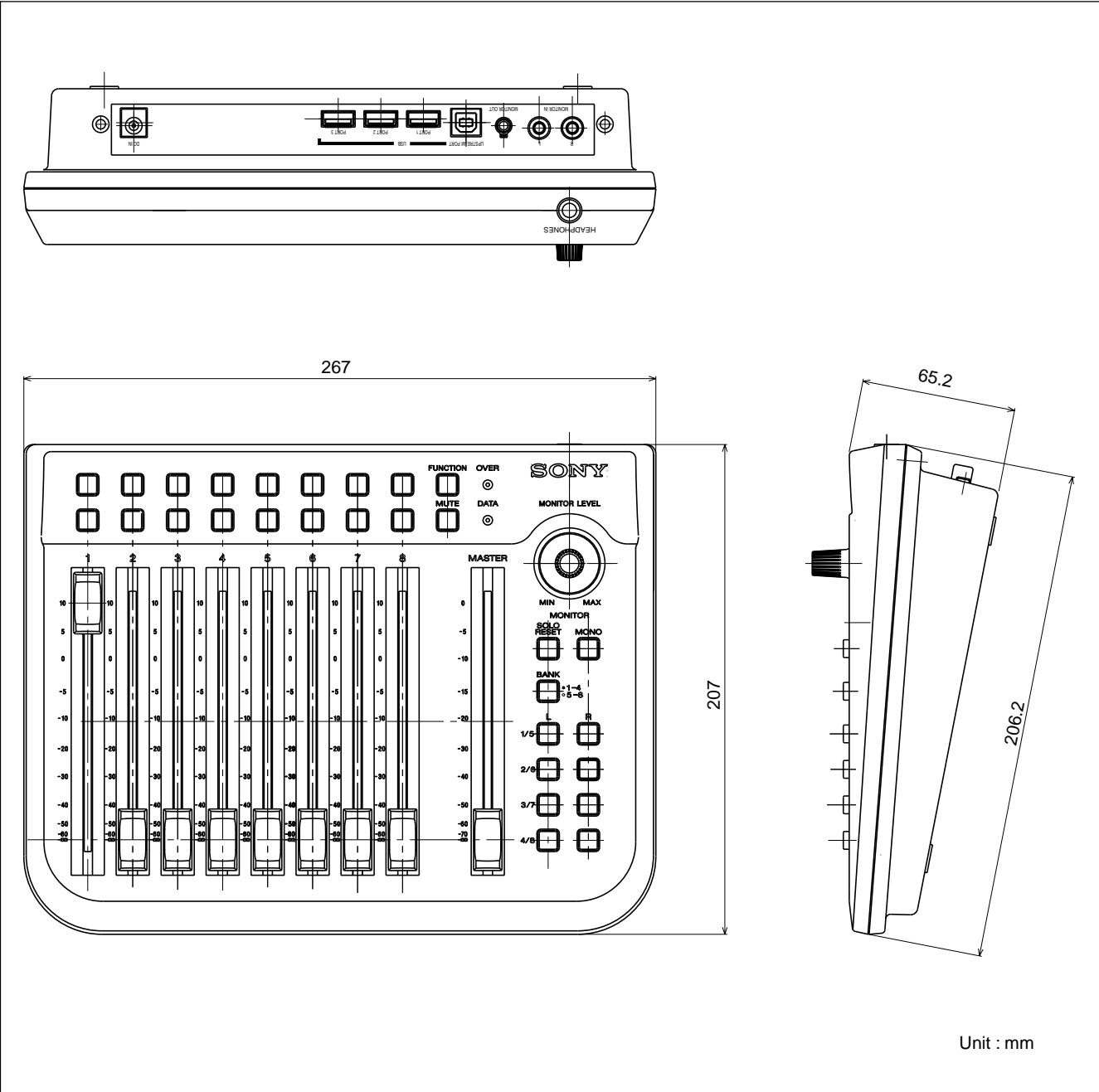
1-3-1. DMW-S01NL/DMW-S02NL

The following shows outward dimensions of the unit and each control panels.

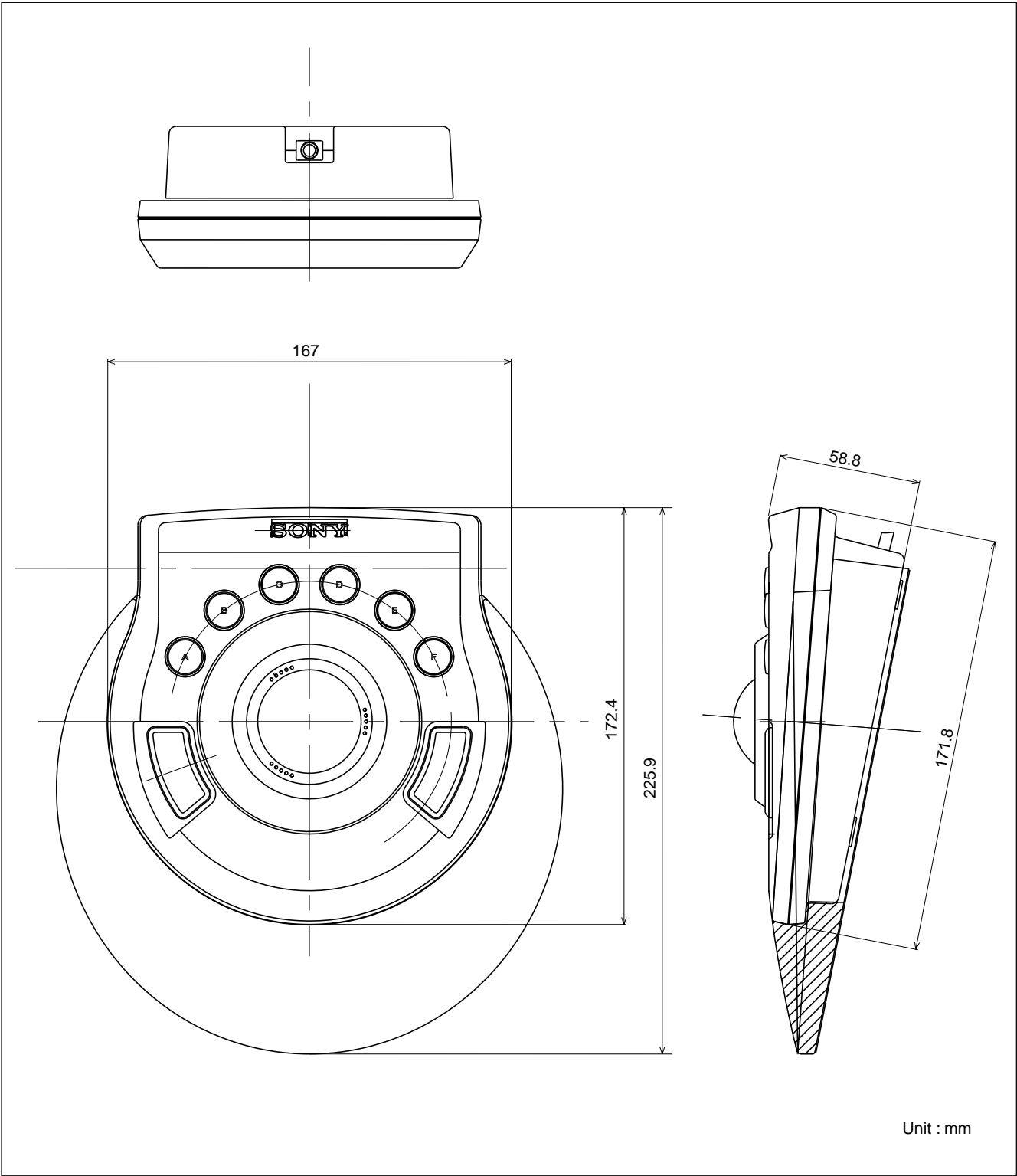
1. Digital Media Workstation/AV I/O Block



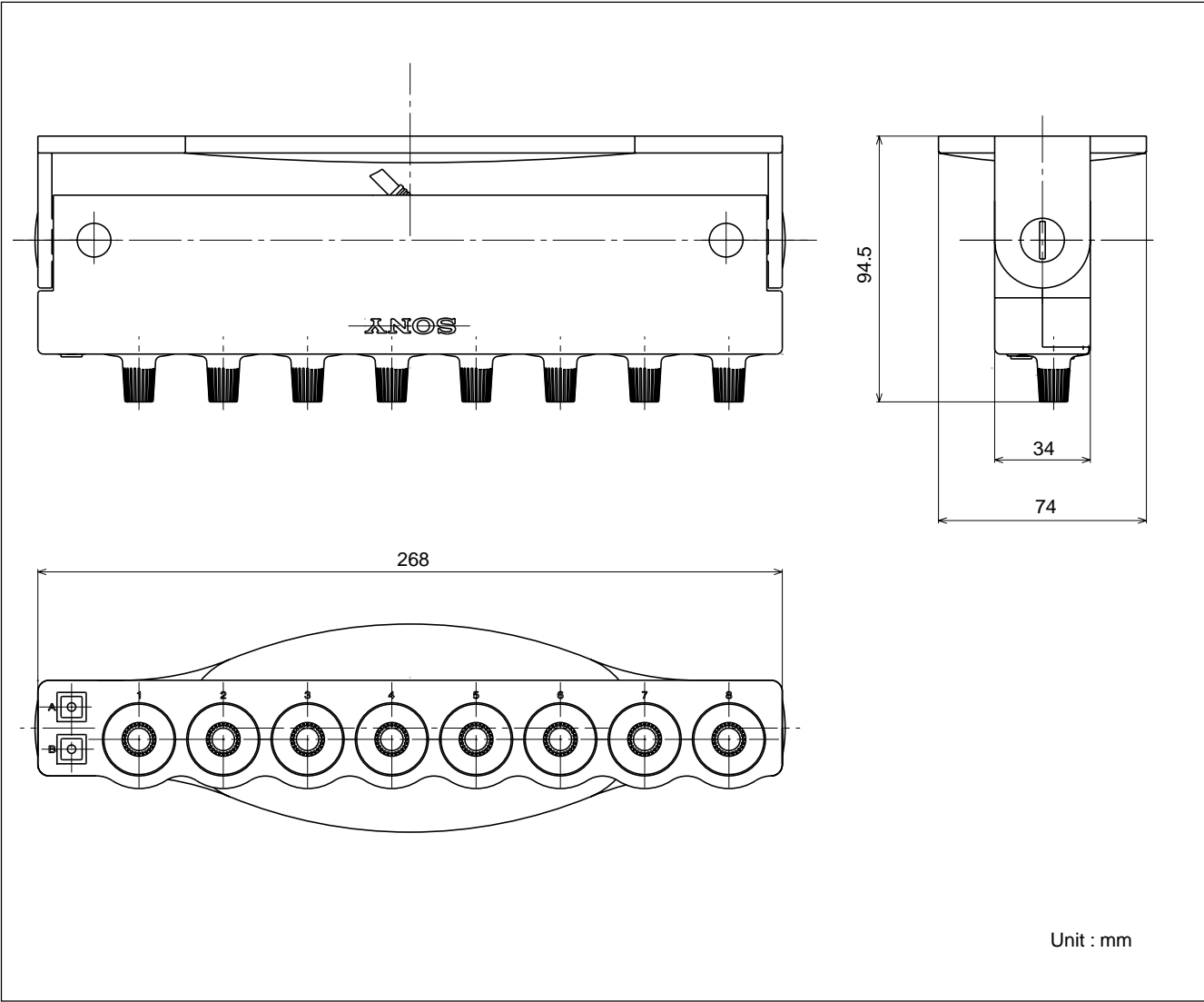
2. Audio Control Panel



3. Trackball Control Panel

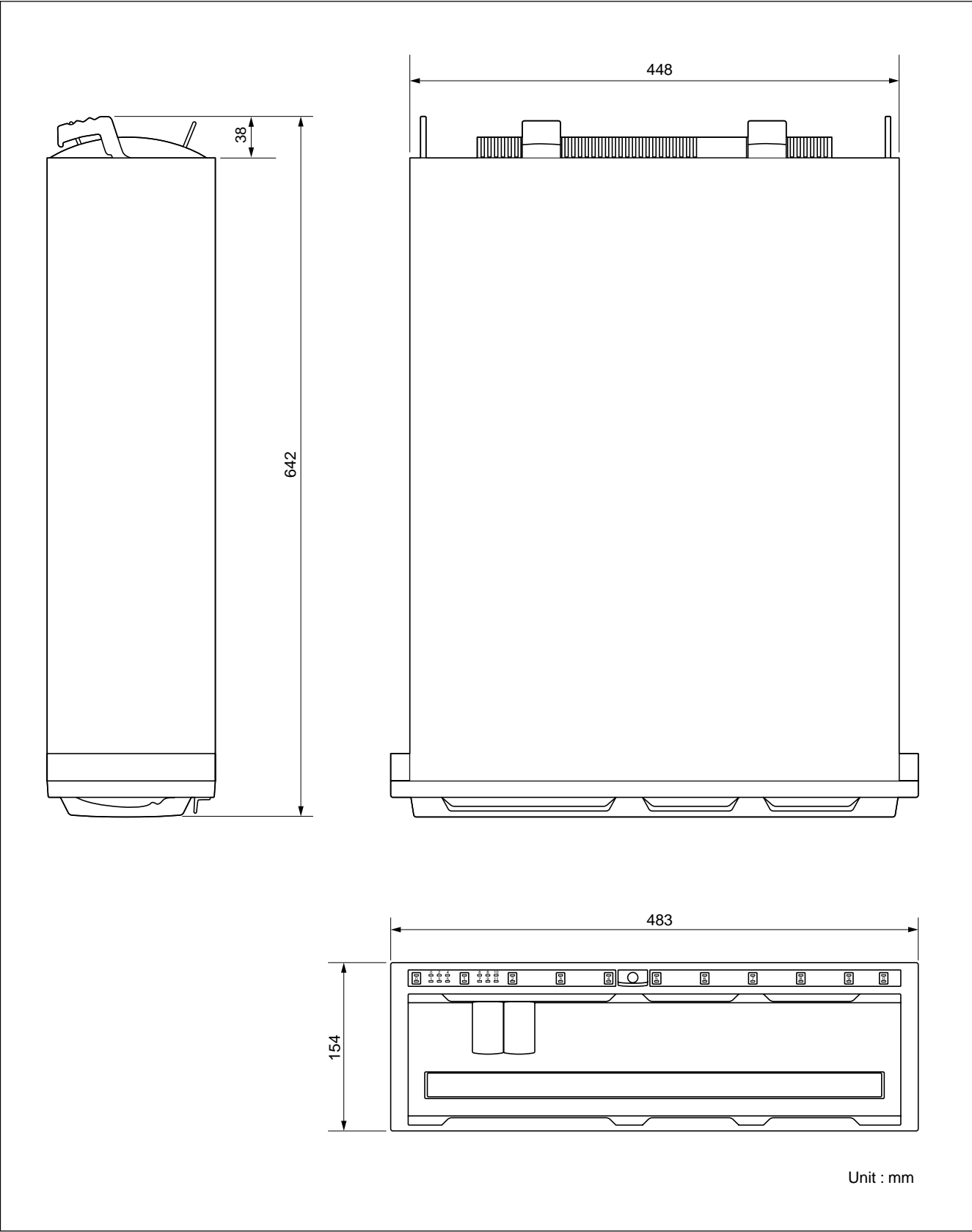


4. Media Bar Control Panel



1-3-2. DMW-ST001

The following shows outward dimensions of the DMW-ST001.



1-4. Connectors and Cables for Connection

Use the connector and the cable below or the equivalent at the tip when cables are connected to each connector on the unit.

1-4-1. DMW-S01NL/DMW-S02NL/DMW-IF02

1. Digital Media Workstation

Panel display	Connector name	Matching connector/cable	Sony Part No.
Mouse	Mini DIN 6P, female	Mouse cable	—
Keyboard	Mini DIN 6P, female	Keyboard cable	—
Printer	D-sub 25P, female	Printer cable	—
Serial 1/2	D-sup 9P, male	D-sub 9P, female	—
Network	RJ-45 modular jack	—	—
USB	USB (series A)	USB (series A) cable	—
Line input/output	Phone jack	Phone plug cable	—
Mic/Headphones	Phone jack	—	—
Graphic board (AGP)	D-sub (high density) 15P, female	Analog RGB cable	—
AV Processing board (PCI3)	BNC (75 Ω)	BNC 5C2V coaxial cable (75 Ω)	—
Fibre channel interface board unit (PCI3)	D-sub 9P, female	Fibre channel interface cable	—
IF 02 Assy (PCI6) *	BCN (75 Ω)	BNC 5C2V coaxial cable (75 Ω)	—

* DMW-IF02

2. AV I/O Block

Panel display	Connector name	Matching connector/cable	Sony Part No.
ANALOG VIDEO INPUT/OUTPUT S	S terminal Mini DIN 4P, female	Mini DIN 4P, male	—
ANALOG VIDEO INPUT/OUTPUT COMP/Y/R-Y/B-Y	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
REFERENCE OUT/IN/THRU	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
MONITOR L/R	Phono jack (RCA type)	Phono plug (RCA type)	—
AUX1 IN L/R	Phono jack (RCA type)	Phono plug (RCA type)	—
AUX2 IN	3P 1/8" phone jack	3P 1/8" phone plug	—
AUX3 IN A/B	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
SDI IN/OUT	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
SYSTEM I/F IN/OUT	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
MON OUT	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
REF OUT2	BNC (75 Ω)	BNC coaxial cable (75 Ω)	—
REMOTE 1/2	D-sub 9P, female	D-sub 9P, male	1-566-354-11
AUDIO IN CH1-4	XLR 3P, female	XLR 3P, male	1-508-084-11
AUDIO OUT CH1-4	XLR 3P, male	XLR 3P, female	1-508-083-11
HEADPHONES	3P jack	3P plug	—

3. Audio Control Panel

Panel display	Connector name	Matching connector/cable	Sony Part No.
HEADPHONES	1/4" phone jack	1/4" phone plug	—
MONITOR IN L/R	Phono jack (RCA type)	Phono plug (RCA type)	—
MONITOR OUT	3P jack	3P plug cable	—
UPSTREAM PORT	USB (series B)	USB (series B) cable	1-757-429-11 Accessory of the DMW-S01NL
USB PORT 1-3	USB (series A)	USB (series A) cable	—

4. Trackball Control Panel

Panel display	Cable name	Matching connector/cable	Sony Part No.
—	USB (series A) cable	USB (series A) connector	—

5. Media Bar Control Panel

Panel display	Cable name	Matching connector/cable	Sony Part No.
—	USB (series A) cable	USB (series A) connector	—

6. Jog & Shuttle Control Panel

Panel display	Connector name	Matching connector/cable	Sony Part No.
UPSTREAM PORT	USB (series B)	USB (series B) cable	1-757-429-11 Accessory of the DMW-S01NL
USB PORT 1-3	USB (series A)	USB (series A) cable	—

1-4-2. DMW-ST001

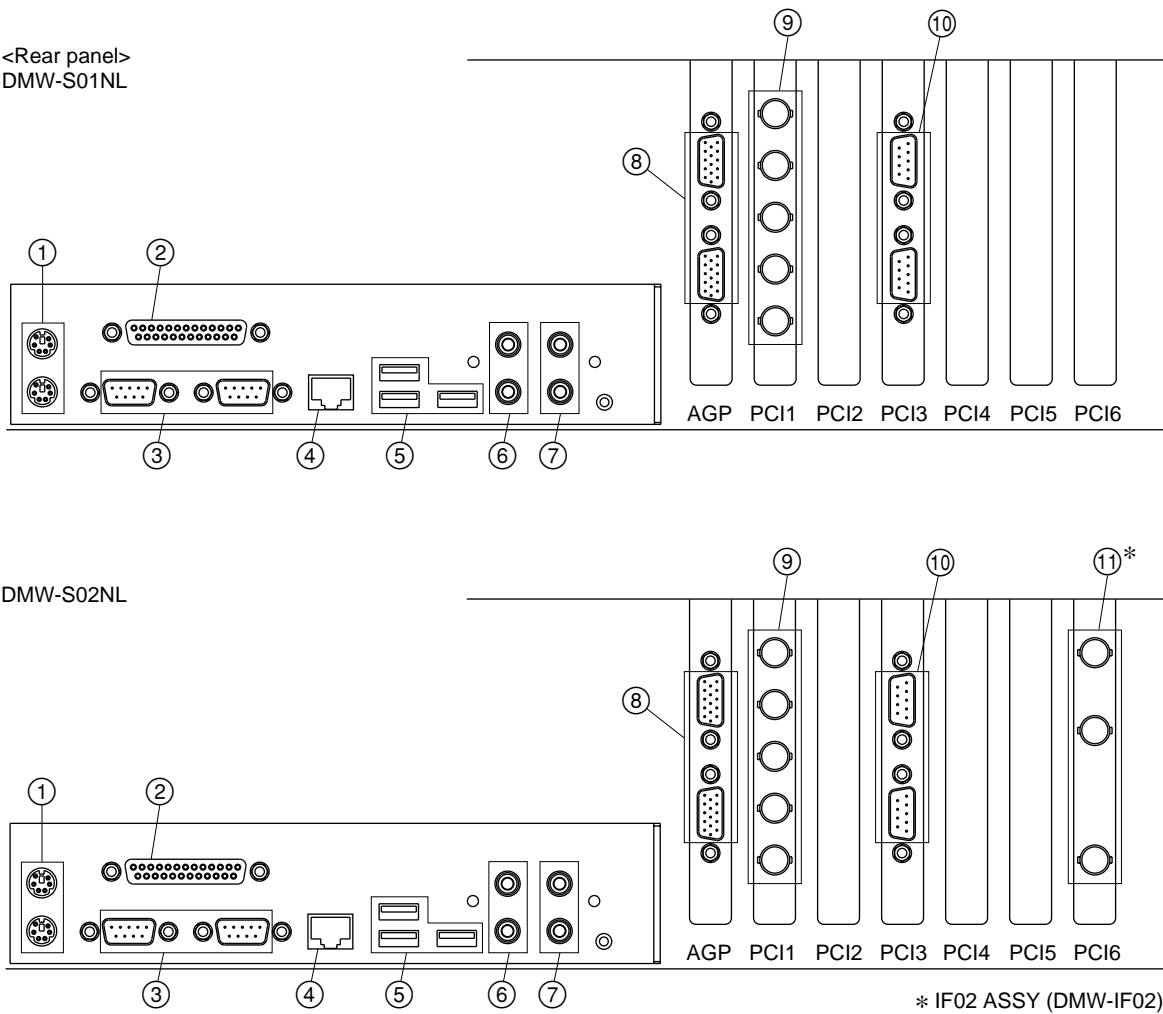
Panel display	Connector name	Matching connector/cable	Sony Part No.
EXP	D-sub 9P, female	Fibre channel interface cable	
PRI	D-sub 9P, female	Fibre channel interface cable	

1-5. Input/Output Signals of Connectors

The following shows input and output signals of each connector of the DMW-S01NL and DMW-ST001.

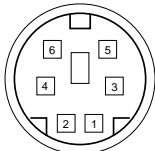
1-5-1. DMW-S01NL/DMW-S02NL/DMW-IF02

1. Digital Media Workstation



- ① **Mouse/Keyboard : Mini DIN 6P, female**
Signal standard : Conform to PS/2 standard

-Outside view-



Pin No.	I/O	Signal name
1	I/O	DATA
2	—	GND
3	—	GND
4	O	PWR
5	I/O	CLK
6	—	GND

② **Printer (25PIN) : D-sub 25P, female**

Signal standard : Parallel interface
(Conform to Saintronics)

-Outside view-

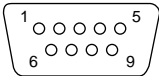


Pin No.	I/O	Signal	Contents
1	I/O	$\overline{\text{STROBE}}$	Data strobe
2	I/O	Data Bit 0	Parallel data
3	I/O	Data Bit 1	Parallel data
4	I/O	Data Bit 2	Parallel data
5	I/O	Data Bit 3	Parallel data
6	I/O	Data Bit 4	Parallel data
7	I/O	Data Bit 5	Parallel data
8	I/O	Data Bit 6	Parallel data
9	I/O	Data Bit 7	Parallel data
10	I	$\overline{\text{ACK}}$	Acknowledge
11	I	BUSY	Busy
12	I	PE	–
13	I	SLCT	Select
14	O	$\overline{\text{AUTO FD}}$	–
15	I	$\overline{\text{ERROR}}$	Error
16	O	$\overline{\text{INIT}}$	–
17	O	$\overline{\text{SLCT IN}}$	Select in
18-25	–	Ground	Ground

③ **Serial 1, 2 : D-sub 9P, male**

Signal standard : Conform to RS-232C

- Outside view -

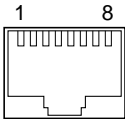


Pin No.	I/O	Signal name
1	I	DCD1
2	I	RXD1
3	O	TXD1
4	O	DTR1
5	–	GND
6	I	DSR1
7	O	RTS1
8	I	CTS1
9	I	RI1

④ **Network : RJ-45 modular jack**

Signal standard : Conform to IEEE 802.3u (10BASE-TX)
and IEEE 802.3 (10BASE-T)

- Outside view -

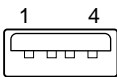


Pin No.	I/O	Signal name
1	O	TXD (+)
2	O	TXD (–)
3	–	GND
4	–	NC
5	–	NC
6	–	GND
7	I	RXD (+)
8	I	RXD (–)

⑤ **USB : USB Series A**

Signal standard : USB standard Ver 1.1

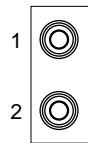
- Outside view -



Pin No.	I/O	Signal name
1	–	Vcc (+5 V)
2	I/O	DATA (–)
3	I/O	DATA (+)
4	–	GND

⑥ **Line input/output : Phone jack**

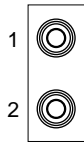
Signal standard : Analog audio signal input/output



Pin No.	I/O	Signal name
1	I	LINE IN
2	O	LINE OUT

⑦ Mic/headphone : Phone jack

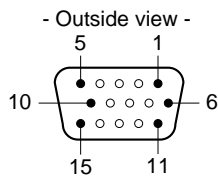
Signal standard : Analog audio signal input/output



Pin No.	I/O	Signal name
1	I	MIC IN
2	O	HEAD PHONE

⑧ Display : D-sub 15P, female (× 2)

Resolution : more than 2560 × 1024 (incase of Dual Display)



Pin No.	I/O	Signal name
1	O	IOUTR
2	O	IOUTG
3	O	IOUTB
4	–	NC
5	–	GND
6	–	VGND
7	–	VGND
8	–	VGND
9	O	VCCDCC
10	–	GND
11	–	NC
12	I/O	DCCSDA
13	O	HSYNCB
14	O	VSYNCB
15	O	DOCSCL

⑨ REF, IN A/B, OUT A/B : BNC × 5

Signal standard : Video input/output signal (SDI input/output)

Conform to SMPTE 259 M, level C, D

Resolution ability 10 bit

Audio input/output signal (embedded audio signal)

Sampling frequency 48 kHz

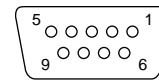
Resolution ability 20 bit

⑩ FIBRE CH1/CH2 : Dsub 9P, female

Signal standard : Conform to FC-AL Public Loop standard

Data transfer speed 100 Mbite/second

- Outside view -



Pin No.	I/O	Signal name
1	O	FC_OUT (+)
2	I	Vcc (+5 V)
3	I	MIA_FAULT
4	–	KEY (not connection)
5	I	FC_IN (+)
6	O	FC_OUT (–)
7	O	MIA_DISABLE
8	–	GND
9	I	FC_IN (–)

⑪ HD SDI IN, HD SDI OUT, REF IN : BNC × 3

HD SDI IN

Signal standard : HD Serial V/A input

SMPTE 292 M/BTA-S004/ITU-R,
BT709

SMPTE 292 M standard SDI

Embedded audio (48 kHz/20 bit/8 ch)

HD SDI OUT

Signal standard : HD Serial V/A output

SMPTE 292 M/BTA-S004/ITU-R,
BT709

SMPTE 292 M standard SDI

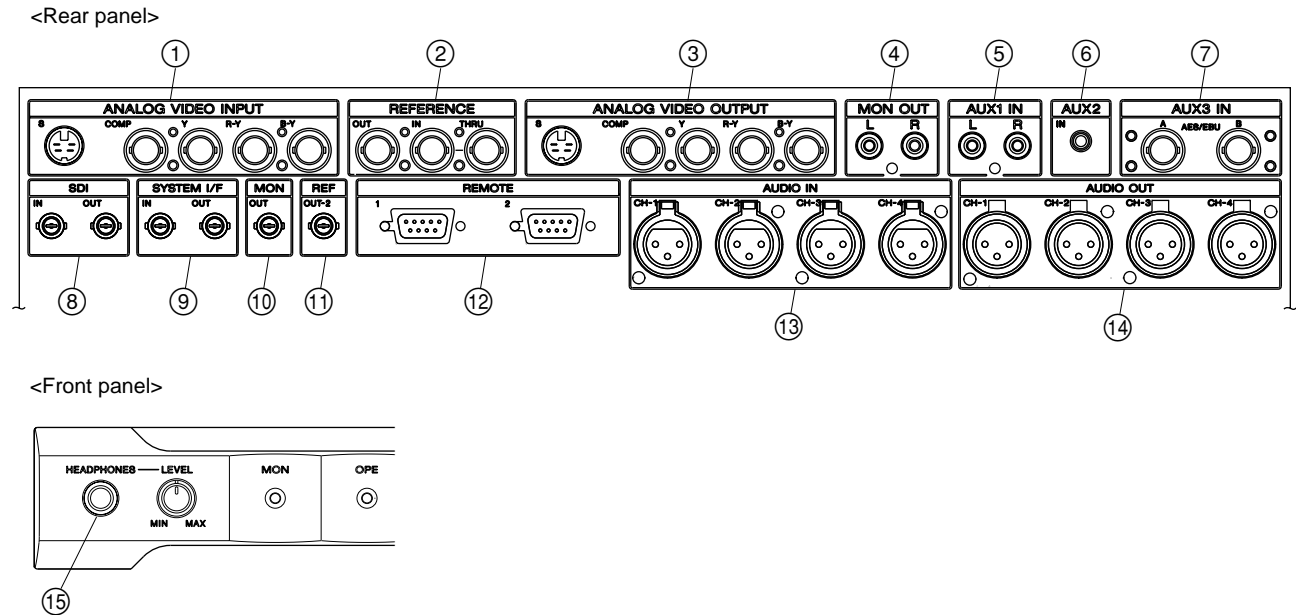
Embedded audio (48 kHz/20 bit/8 ch)

REF IN

Signal standard : Reference input

0.6 Vp-p, 2 value/3 value SYNC

2. AV I/O Block



① ANALOG VIDEO INPUT section

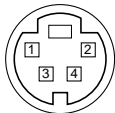
S : Mini DIN 4P, female

Signal standard : Y/C separation signal input

Y : 1.0 Vp-p, 75 Ω, sync negative

C : 0.286 Vp-p (NTSC)/0.300 Vp-p (PAL),
75 Ω (burst level)

- Outside view -



Pin No.	I/O	Signal name
1	—	GND
2	—	GND
3	I	Y Signal
4	I	C Signal

COMP : BNC × 1

Signal standard : Composite signal input

1.0 Vp-p, 75 Ω, sync negative

Y/R-Y/B-Y : BNC × 3

Signal standard : Component analog

(BETACAM/D1-CAV)

Video format

② REFERENCE section

OUT/IN/THRU : BNC × 3

Signal standard : Reference video input/output (with
loop through)

Black burst, 0.286 Vp-p (NTSC)/
0.300 Vp-p (PAL), 75 Ω,
sync negative

③ ANALOG VIDEO OUTPUT section

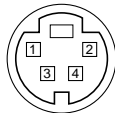
S : Mini DIN 4P, female

Signal standard : Y/C separation signal output

Y : 1.0 Vp-p, 75 Ω, sync negative

C : 0.286 Vp-p (NTSC)/0.300 Vp-p (PAL),
75 Ω (burst level)

- Outside view -



Pin No.	I/O	Signal name
1	—	GND
2	—	GND
3	I	Y Signal
4	I	C Signal

④ MON OUT L/R : Phono jack (RCA type)

Signal standard : Analog audio signal output (unbalanced)

Reference output level : −10 dBV

Output impedance : Less than 50 Ω

⑤ AUX1 IN L/R : Phono jack (RCA type)

Signal standard : Analog audio signal output (unbalanced)

Reference input level : -10 dBVInput impedance : $10\text{ k}\Omega$ or more**⑥ AUX2 IN : 3P 1/8" phone jack**

Signal standard : Analog audio signal output (unbalanced)

Reference input level : -10 dBVInput impedance : $10\text{ k}\Omega$ or more**⑦ AUX3 IN A/B : BNC (75 Ω) \times 2**

Signal standard : AES/EBU format digital audio signal input

Sampling frequency : 44.1 kHz, 48 kHz

⑧ SDI IN/OUT : BNC (75 Ω) \times 2

Signal standard : SMPTE259M/ITU-R BT.656 component

serial digital interface format

(270 Mbps)

⑨ SYSTEM I/F IN/OUT : BNC (75 Ω) \times 2

Signal standard : SMPTE259M/ITU-R BT.656 component

serial digital interface format

(270 Mbps)

⑩ MON OUT : BNC (75 Ω) \times 1

Signal standard : SMPTE259M/ITU-R BT.656 component

serial digital interface format

(270 Mbps)

⑪ REF OUT-2 : BNC (75 Ω) \times 1

Signal standard : Reference video output

Black burst, 0.286 Vp-p (NTSC)/

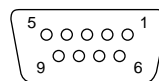
0.300 Vp-p (PAL), 75Ω ,

sync negative

⑫ REMOTE 1/2 : D-sub 9P, female

Signal standard : Conform to sony 9pin standard

- Outside view -



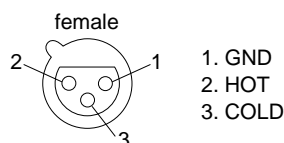
Pin No.	I/O	Signal name
1	—	FG
2	I	RX —
3	O	TX +
4	—	GND
5	—	NC
6	—	GND
7	I	RX +
8	O	TX —
9	—	FG

⑬ AUDIO IN CH-1/CH-2/CH-3/CH-4 : XLR 3P, female

Signal standard : Analog audio signal input (balanced)

Reference input level : $+4$ dBuInput impedance : $10\text{ k}\Omega$ or more/ $600\ \Omega$

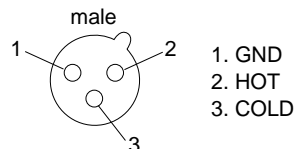
-Outside view-

**⑭ AUDIO OUT CH-1/CH-2/CH-3/CH-4 : XLR 3P, male**

Signal standard : Analog audio signal output (balanced)

Reference output level : $+4$ dBuOutput impedance : Less than $50\ \Omega$

-Outside view-

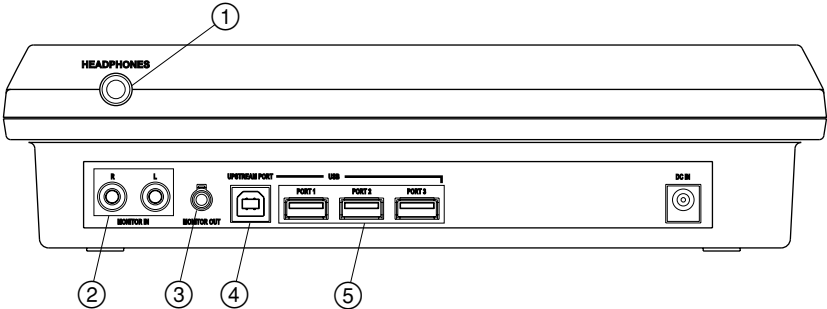
**⑮ HEADPHONES**

Signal standard : Analog audio signal output

Reference output level : $+4$ dBVOutput impedance : Less than $50\ \Omega$

3. Audio control panel

<Rear panel>



① HEADPHONES : 3P jack

Signal standard : Analog audio signal output (unbalanced)
Reference output level : -10 dBV
Output impedance : 50 Ω or Less than

② MONITOR IN L/R : Phono jack (RCA type)

Signal standard : Analog audio signal input (unbalanced)
Reference input level : -10 dBV
Input impedance : 20 kΩ or more

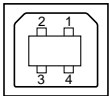
③ MONITOR OUT : 3P 1/8" Phone jack

Signal standard : Analog audio signal output (unbalanced)
Reference output level : -10 dBV
Output impedance : 470 Ω

④ UPSTREAM PORT : USB (Seris B)

Signal standard : USB standard Ver1.1

- Outside view -

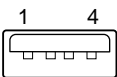


Pin No.	I/O	Signal name
1	—	Vcc (+5 V)
2	I/O	DATA (-)
3	I/O	DATA (+)
4	—	GND

⑤ USB PORT 1-3 : USB (Seris A)

Signal standard : USB standard Ver 1.1

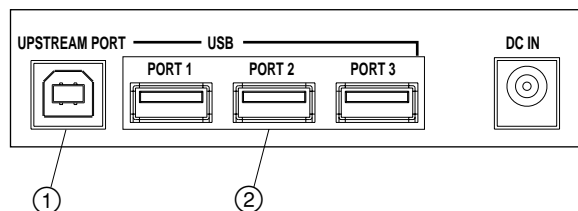
- Outside view -



Pin No.	I/O	Signal name
1	—	Vcc (+5 V)
2	I/O	DATA (-)
3	I/O	DATA (+)
4	—	GND

4. Jog & Shuttle Control Panel

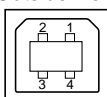
<Rear panel>



① UPSTREAM PORT : USB (series B)

Signal standard : USB standard Ver1.1

- Outside view -

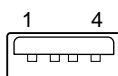


Pin No.	I/O	Signal name
1	—	Vcc (+5 V)
2	I/O	DATA (—)
3	I/O	DATA (+)
4	—	GND

② USB PORT 1 to 3 : USB (series A)

Signal standard : USB standard Ver 1.1

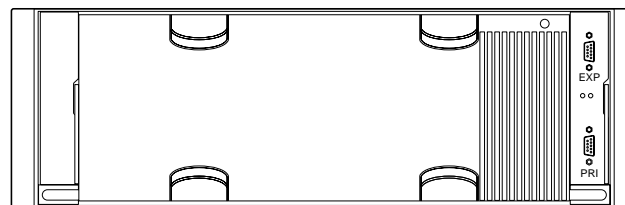
- Outside view -



Pin No.	I/O	Signal name
1	—	Vcc (+5 V)
2	I/O	DATA (—)
3	I/O	DATA (+)
4	—	GND

1-5-2. DMW-ST001

<Rear panel>

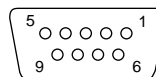


EXP : Dsub 9P, female

Signal standard : Conform to FC-AL Public Loop standard

Data transfer speed 100 Mbite/second

- Outside view -



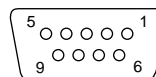
Pin No.	I/O	Signal name
1	O	FC_OUT (+)
2	I	Vcc (+5 V)
3	I	MIA_FAULT
4	—	KEY (not connection)
5	I	FC_IN (+)
6	O	FC_OUT (—)
7	O	MIA_DISABLE
8	—	GND
9	I	FC_IN (—)

PRI : D-sub 9P, female

Signal standard : Conform to FC-AL Public Loop standard

Data transfer speed 100 Mbite/second

- Outside view -



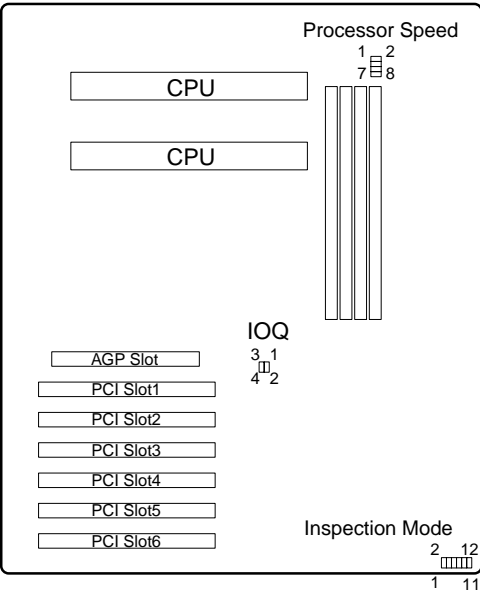
Pin No.	I/O	Signal name
1	O	FC_OUT (+)
2	I	Vcc (+5 V)
3	I	MIA_FAULT
4	—	KEY (not connection)
5	I	FC_IN (+)
6	O	FC_OUT (—)
7	O	MIA_DISABLE
8	—	GND
9	I	FC_IN (—)

1-6. Switch and jumper-pin setting and LED functions

1-6-1. DMW-S01NL/DMW-S02NL/DMW-IF02

1. Digital media workstation

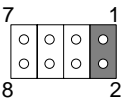
• Mother board



Jumper-pin

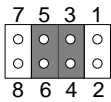
Processor Speed : 733 MHz

pin 1-2 ; jumper socket insertion



866 MHz

pin 3-4, 5-6 ; jumper socket insertion



Factory setting

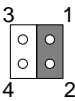
pin 3-4, 5-6 ; jumper socket insertion

IOQ

: Unchangeable setting

Factory setting

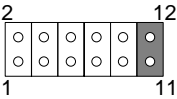
pin 1-2 ; jumper socket insertion



Inspection Mode: Unchangeable setting

Factory setting

pin 11-12 ; jumper socket insertion



• Fibre channel interface board



Switch

S301, S302 :

S301				S302				Functions
-1	-2	-3	-4	-1	-2	-3	-4	
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Normal operation (Set for factory setting)
ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	2nd PCI, 32 bit
ON	OFF	OFF	OFF	ON	ON	OFF	OFF	960 Flash write in

LED

D101 (green) : 5 V power supply



Light on : normalcy

D102 (umber) : 3.3 V main power supply

Light on : normalcy

D103 (red) : 960 processor reset/error

Light on : reset or error

Light off : normalcy

D501-D504 (umber) : FC channel 0 status indication

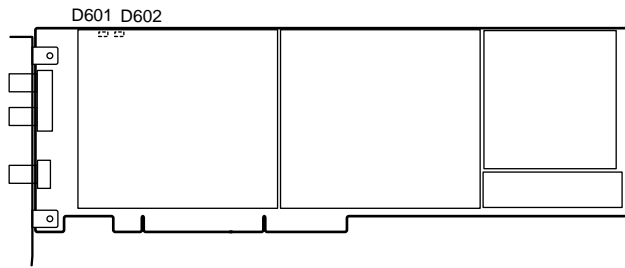
D901-D904 (umber) : FC channel 1 status indication

D301-D316 (umber) : 960 processor status indication

LED indicating conditions when unit is turned on

Conncting sequence	LED indication
POST boot	<ul style="list-style-type: none">D501-D504 : light offD901-D904 : light offD301-D316 : unsettled
During Windows running, FC board boot Fibre channel link establishing	<ul style="list-style-type: none">DMW-ST001 connecting D503, D903 : light upDMW-ST001 no connecting D502, D504 : light up D902, D904 : light up
	<ul style="list-style-type: none">D312 : blinkingD301-D311 : light offD313-D316 : light off

• IF02 Assy (DMW-IF02)

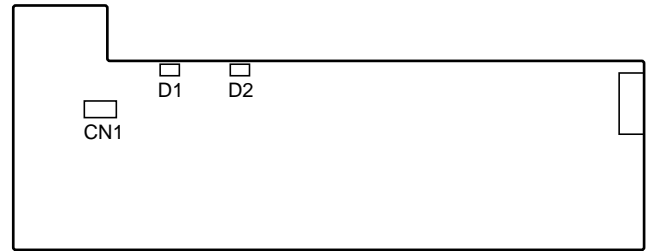


LED

D601 (green) : CPU operating status indication
 D602 (red) : CPU operating status indication

D601	D602	CPU operating status indication
Blinking	Light off	Normal mode is operating
	Light on	Abnormal occurring
	Blinking	Abnormal occurring (Light up simultaneously)/ Self diagnosis mode is operating (Blinking alternately)
Light on	Light off	Monitor Soft is operating/ Abnormal occurring
	Light on	Abnormal occurring
	Blinking	Abnormal occurring
Light off	Light off	Abnormal occurring
	Light on	Debugger is operating/ Abnormal occurring
	Blinking	Abnormal occurring

2. AV I/O block



• AH-65 board

LED

D1 (green) : Power supply conditions of AV I/O block

Light on : Normalcy

Blinking : Abnormal power supply voltage is supplied to some of board on AV I/O block.

Light off: AV I/O block is sleep mode or unit is turned off.

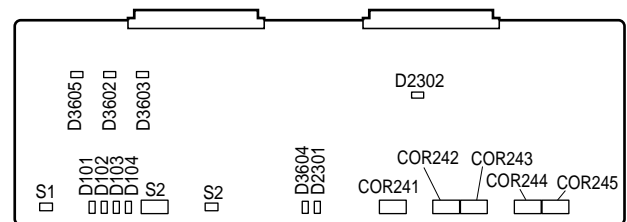
D2 (orange): Operating condition of CPU on the MPU-120 board of AV I/O block

Light on : Down loading the farm ware to flash memory of CPU, or CPU operates by program of EPROM.

Blinking : CPU operates by program of flash memory, and performs processing which receive the command from flash memory via USB.

Light off: CPU operates by program of flash memory, however is not received the command from flash memory via USB.

• MPU-120 board



Switch

S1 : System reset

Press this S1 when hard resetting the CPU of AV I/O block

S2 : Selector switch between 525 system and 625 system

Factory setting

525

S3 : BOOT_ROM

Not used

LED

D104 (green) : ST1

Indicate the process status in proportion to CPU load

D103 (green) : ST1

Indicate the process status in proportion to CPU load

D102 (green) : ST1

Indicate the process status in proportion to CPU load

D101 (green) : ST1

Indicate the process status in proportion to CPU load

D3605 (green) : +5 V CPU

+5 power supply condition of CPU

Light on : Normalcy

Light off : Abnormal power supply voltage
or fuse F3604 (2.5 A) has blown.

D3602 (green) : +5 V

+5 V power supply condition

Light on : Normalcy

Light off : Abnormal +5 V power supply voltage
or fuse F3601 (5 A) has blown.

D3603 (green) : +3.3 V

+3.3 V power supply condition

Light on : Normalcy

Light off : Abnormal +3.3 V power supply voltage
or fuse F3603 (5 A) has blown.

D3604 (green) : +2.5 V

+2.5 V power supply condition

Light on : Normalcy

Light off : Abnormal +2.5 V power supply voltage
or fuse F3602 (5 A) has blown.

D2301 (green) : FPGA_CONF_DONE

Light up when program is down loaded in IC2401

D2302 (green) : VCO

Use VCO adjustment of IC2001, IC2002,
IC2601, IC2701, IC3001 and IC3202.Light up : VCO free run frequency is within
the specification range.Light off : VCO free run frequency is without
the specification range or out of
adjustment mode**Jumper-pin**COR241 : Use down loading the configuration
data for IC2301 (FPGA) to IC2401.**Factory setting** : Open*

COR242, COR243 : For monitoring HIF • 3 Sound at DMW-S01NL

Factory setting

COR242, COR243 : Open*

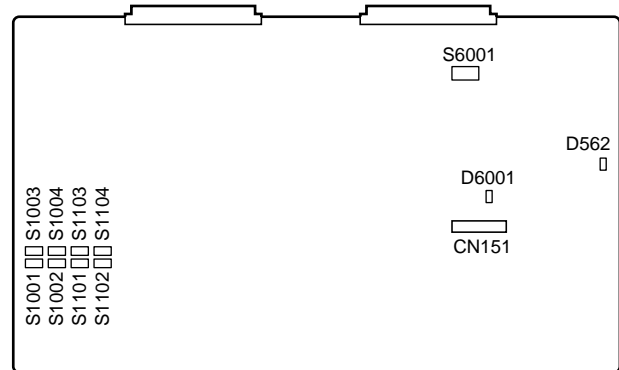
AUD_HARNES is connected at DMW-S02NL

XOR244, COR245 : For SDI input/output expander

Factory setting

COR244, COR245 : Open*

*Open : Jumper socket un-insertion

• MTS-11 board**Switch**

S6001 (S6001-1 to S6001-4) : Not in used

Use the following factory setting

Factory setting

S6001-1 to -4 : OFF of all

S1001, S1002, S1101, S1102 : AUDIO IN (XLR 3P connector)

ON/OFF switch of 600 Ω termination for CH-1/ CH-2/
CH-3/ CH-4

Switch	Corresponding channel
S1001	CH-1
S1002	CH-2
S1101	CH-3
S1102	CH-4

Factory setting

S1001, S1002, S1101, S1102 : OFF (600 Ω termination OFF)

S1003, S1004, S1103, S1104 : AUDIO IN (XLR 3P connector)

Input level (+16/+24 dBu) selector switch of CH-1/
CH-2/CH-3/CH-4

Switch	Corresponding channel
S1003	CH-1
S1004	CH-2
S1103	CH-3
S1104	CH-4

Factory setting

S1003, S1004, S1103, S1104 : +24 dBu (Input level)

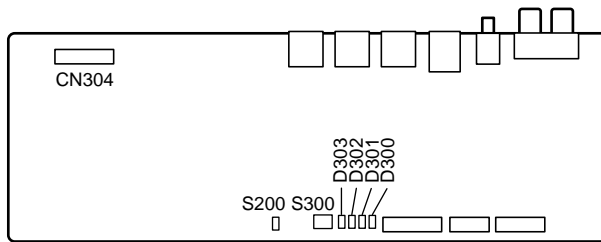
LED

D6001 (green) : +2.5 V

Indicate +2.5 V power supply state
 +2.5 V power supply voltage is made from
 +3.3 V on the MTS-11 board.
 Light on : Normalcy
 Light off : Shut off +3.3 V power supply or
 short +2.5 V lines circuit

D562 (green) : BD_NG

Light on : Normalcy
 Light off : Abnormal power supply voltage
 (some of +5 V, +3.3 V, +7 V, -7 V,
 +15 V, +2.5 V) in the MTS-11 board

3. Audio control panel**• CPU-315 board****Switch**

S200 : Reset switch

Press this S200 when reset the CPU and their
 peripheral circuit.

S300 (S300-1 to S300-4) : For design testing

Use the following factory setting

Factory setting

S300-1 to -4 : OFF of all

LED

D300 (green) : For design testing (Light off when normal operation)

D301 (green) : For design testing (Light off when normal operation)

D302 (green) : For design testing (Light off when normal operation)

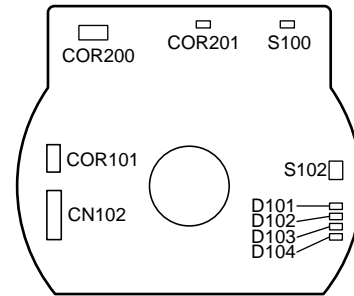
D303 (green) : CPU operating status indication

Blinking at one second period during normal
 operation

Connector

CN304 : Connector for RS232C testing

Factory use

4. Trackball control panel**• CPU-316 board****Switch**

S100 : Reset switch

Press this S100 when reset the CPU and their peripheral circuit

S102 (S102-1 to S102-4) : For design testing

Use the following factory setting

Factory setting

S102-1 to S102-4 : OFF of all

LED

D101 (green) : CPU operating status indication

Blinking at one second period during normal operation

D102 (green) : For design testing

D103 (green) : For design testing

D104 (green) : For design testing

Connector

COR101 : Connector for design testing

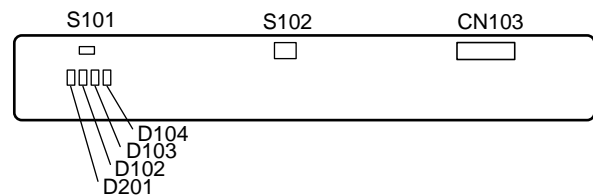
Factory use

COR200, COR201 : Connector for PLD writing

Factory use

CN102 : Connector for CPU program writing

Factory use

5. Media bar control panel**• CPU-319 board****Switch**

S101 : Reset switch

Press this S100 when reset the CPU and their peripheral circuit

S102 (S102-1 to S102-4) : For design testing

Use the following factory setting

Factory setting

S102-1 to S102-4 : OFF of all

LED

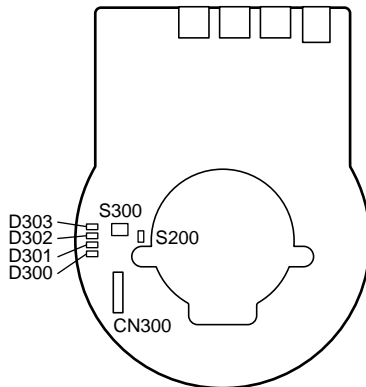
- D102 (green): CPU operating status indication
 Blinking at one second period during normal operation
- D103 (green): For design testing
- D104 (green): For design testing
- D201 (red) : IC202 status indication
 Normalcy light up when starting up the unit
 and then light off

Connector

- CN103 : Connector for CPU program writing
 Factory use

6. Jog & shuttle control panel

• CPU-314 board



Switch

- S200 : Reset switch
 Press this S200 when reset the CPU and their peripheral circuit
- S300 (S300-1 to S300-4) : For design testing
 Use the following factory setting
- Factory setting**
 S300-1 to S300-4 : OFF of all

LED

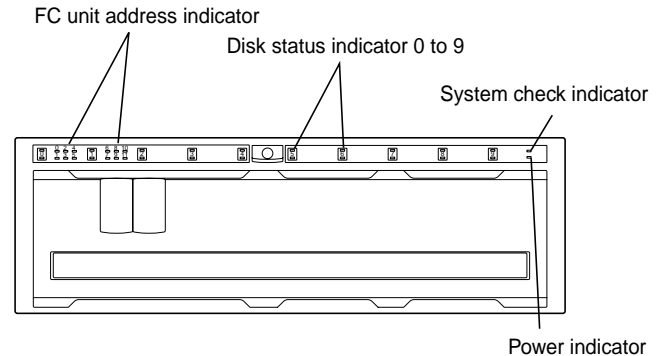
- D300 (green) : For design testing
- D301 (green) : For design testing
- D302 (green) : For design testing
- D303 (green) : CPU operating status indication
 Blinking at one second period during normal operation

Connector

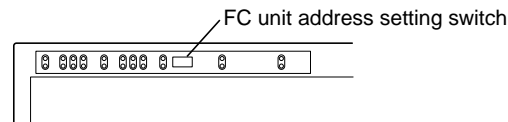
- CN300 : Connector for RS232C testing
 Factory use

1-6-2. DMW-ST001

• Front side



• Inside



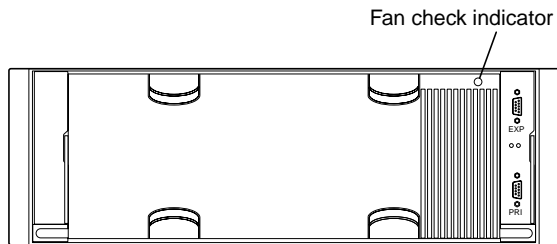
Switch

- FC address setting switch :
 When several sets of the DMW-ST001 connects to the DMW-S01NL, different address number (0 to 11) sets to each set respectively. When one of DMW-ST001 connect to the DMW-S01NL, address number set to 0.
- Factory setting : 0**

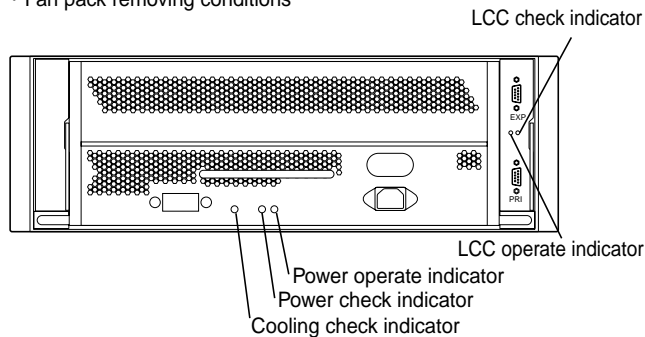
LED

- Power indicator : (green)
 Light up when turned on the unit
- System check indicator : (umber)
 Light up when some error occurs in the unit
 Light up when turned on the unit only or starting up OS of workstation before
- FC unit address indicator : (green) 0 to 11
 When using the several units, address number indicator is light up which assigned by FC unit address setting switch.
- Disk status indicator : 0 to 9
- Upper side : (umber) Disk check indicator
 Light up when some error occurs on each disk modules
- Lower side : (green) Indication of disk module operating status
 Light off : Disk module is not installed.
 Repeat light off and blinking : Disk module is in start up of preparation.
 Blinking at fixed periods : Increasing or decreasing of the disk module speed
 Light on : Disk module is normal operating, but no data access.
 Repeat light up and blinking : Disk module is normal operating and performing the data access.

• Rear side



• Fan pack removing conditions



Fan check indicator : (yellow)

Light up when abnormal operating of the fan

Power operate indicator : (green)

Light up when power supply voltage is supplied normally

Power check indicator : (amber)

Light up when power supply voltage is supplied abnormally

Cooling check indicator : (amber)

Blinking when several fans operates abnormally or drive fan pack was removed

When more than two minutes passed during abnormal status, HDD is turned off automatically

LCC check indicator : (umber)

Light up when LCC or connection is abnormally

LCC operate indicator : (green)

Light up when turned on the LCC

1-7. Rack Mounting

WARNING

- Be sure to use the specified rack mount kit.
If not, injury may result and the equipment may fall due to insufficient strength.
- After rack mounting, be sure to tighten the screws on the rack angle and fix the unit in the rack.
If the screws on the rack angle are not tightened, the unit may slip from the rack and fall, causing injury.

CAUTION

When mounting the unit in the rack, note the following:

- Be sure to mount in the rack with two persons or more.
- Be careful not to catch your fingers or hands in the rack mount rail or others.
- Mount in the rack in a stable position.

Note

- Do not ship or transport a rack mounted the unit while it is mounted on the universal rails. Doing so will void the factory warranty on the unit.

1-7-1. DMW-S01NL/DMW-S02NL

The main unit (workstation with AV I/O block) of DMWS01NL/DMW-S02NL is able to mount in the 19-inch standard rack. To mount the DMW-S01NL/DMW-S02NL in the rack, use the specified rack mount kit and follow the procedure described below.

Required parts

- Specified rack mount kit : Sony RMM-10 (Optional accessory)
- Rack cover : 2 pcs (Supplied with DMW-S01NL/DMW-S02NL)
- Rack plate : 2 pcs (Supplied with DMW-S01NL/DMW-S02NL)
- Rack plate attaching screws : 4 pcs (Supplied with DMW-S01NL/DMW-S02NL)
(B4 × 8 : 7-682-561-09)
- Unit attaching screws* : 4 pcs
(10-32 UNF × 1/2)

* This screws are not supplied with DMW-S01NL/DMW-S02NL.

Note

If a rack mount kit other than the specified one is used, the unit may not be mounted in the 19-inch standard rack.

Parts of the RMM-10

- Rack brackets : 2 pcs
- Right rack mount adapter : 1 pc
[Including two screws (B4 × 6 : 7-682-560-09)]
- Left rack mount adapter : 1 pc
[Including two screws (B4 × 6 : 7-682-560-09)]
- Rack brackets and adapter attaching screws : 6 pcs
(B4 × 6 : 7-682-560-09)
- Adapter attaching screws : 6 pcs
(B4 × 10 : 7-682-560-10)

• Rack mounting procedure

This section describes the rack mounting procedure using the RMM-10 rack mount kit.

Note

Tighten the screws to the following torque.

Tightening torque : $120 \times 10^{-2} \text{ N} \cdot \text{m}$ {12.2 kgf·cm}

- (1) Remove six screws and remove the feet from the bottom of the unit.
- (2) Attach the rack brackets to the side of the unit using the specified six screws.

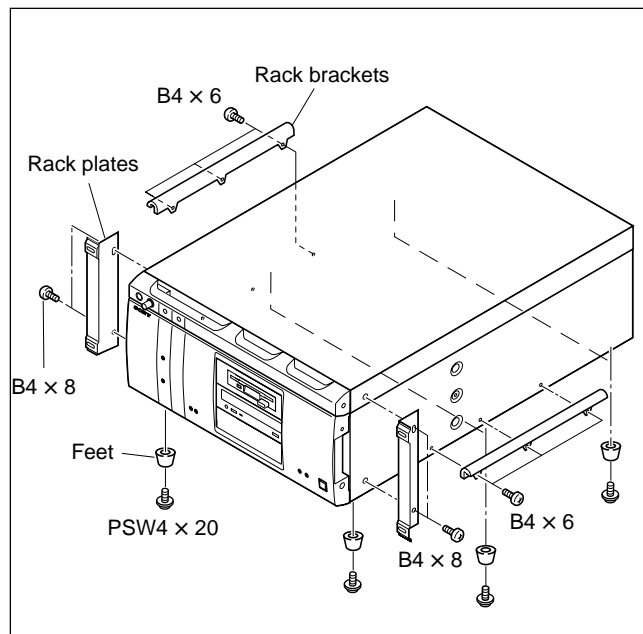
Note

Use B4 × 6 screws. Using other screws may cause problems in the operations of the unit.

- (3) Attach the rack plate to the side of the equipment using the specified four screws.

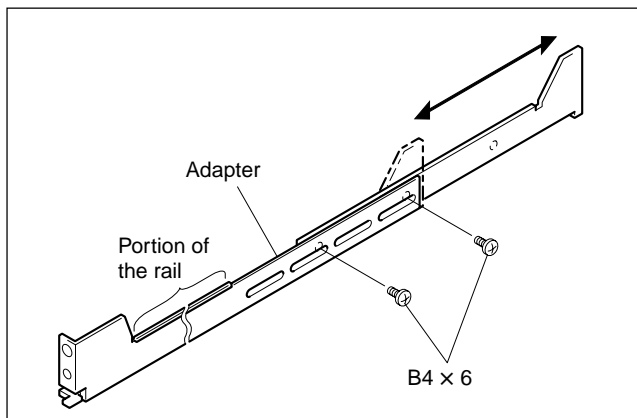
Note

Use B4 × 8 screws. Using other screws may cause problems in the operations of the unit.



- (4) Loosen the screws on the rear of the right and left adapters and adjust the length of the adapter according to the depth of the rack.

(The figure below shows the left adapter.)



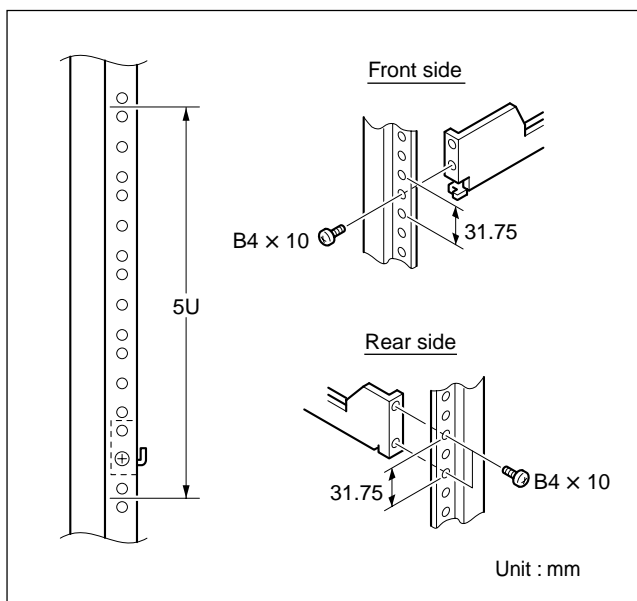
Note

Maximum depth of adapter : 750 mm

Minimum depth of adapter : 595 mm

- (5) Attach the right and left adapters to the rack completely using the specified six screws.

(The figure below shows the left adapter.)

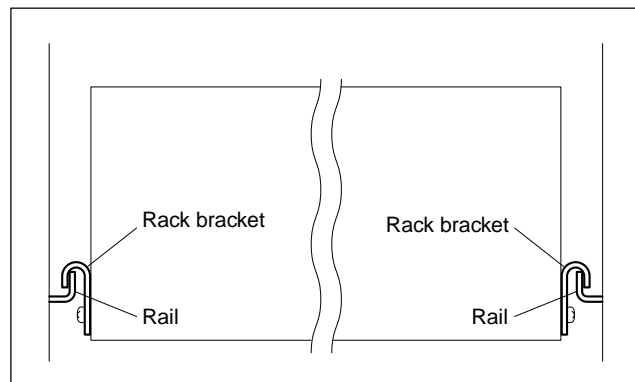


- (6) Tighten the screws (B4 × 6 : two screws each on the right and left) for adjusting the length of the adapter completely [the screws that were loosened in step (4)].

- (7) Align the groove of the rack brackets at the side of the unit with the rail, and slide the unit to the rear.

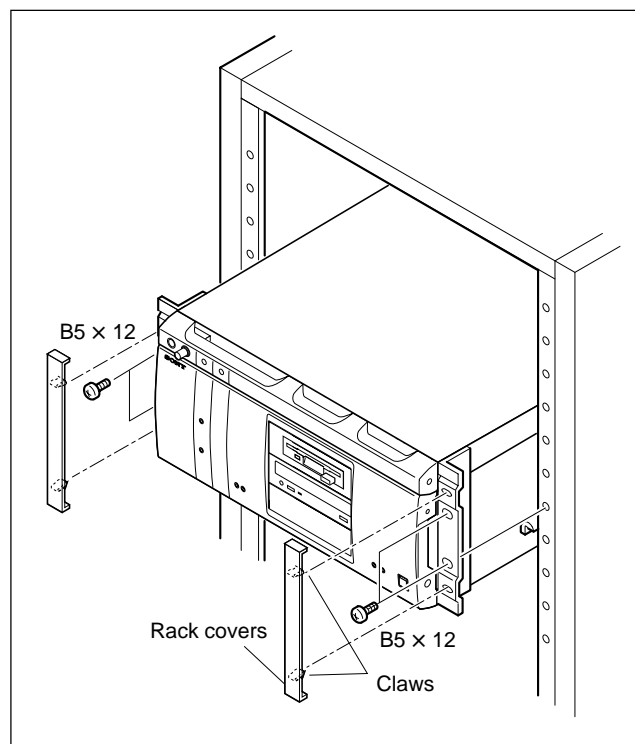
Note

The rack brackets are hooked on the rails as shown below.



- (8) Fix the rack plates in the rack using the specified screws.

- (9) Insert the claws into the holes of rack plate and attach the rack covers.



1-7-2. DMW-ST001

The DMW-ST001 is able to mount in the 19-inch standard rack.

To mount the DMW-ST001 in the rack, use the rack mount rail of supplied accessory and follow the procedure described below.

Required parts

- Right rack mount rail : 1 pc (Supplied with DMW-ST001)
- Left rack mount rail : 1 pc (Supplied with DMW-ST001)
- Rail attaching screws/Unit attaching screws (10-32UNF × 1/2),
spring washers
and plain washers : Each 8 pcs (Supplied with DMW-ST001)
- Clip nuts : 8 pcs (Supplied with DMW-ST001)

• Rack mounting procedure

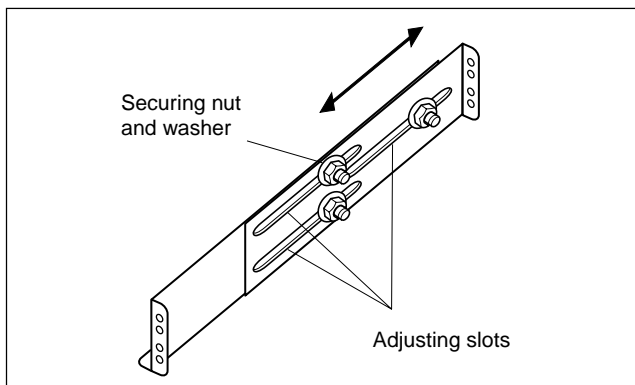
This section describes the rack mounting procedure using the rack mount rail of supplied accessory.

Note

Tighten the screws to the following torque.

Tightening torque : $120 \times 10^{-2} \text{ N} \cdot \text{m}$ { 12.2 Kgf·cm }

- (1) Loosen the nuts on the left and right rails and adjust the length of the rail according to the depth of the rack. (The figure below shows the right rail.)



Note

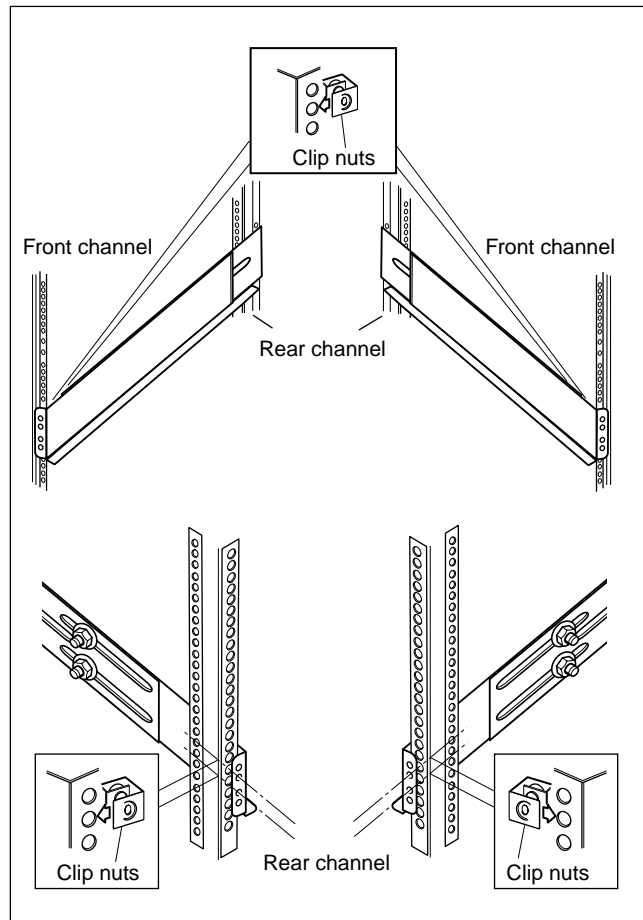
Maximum depth of rail : 715 mm

Minimum depth of rail : 504 mm

- (2) If the rack channel does not have threaded screw holes, attach the clip nuts to the rack channel.

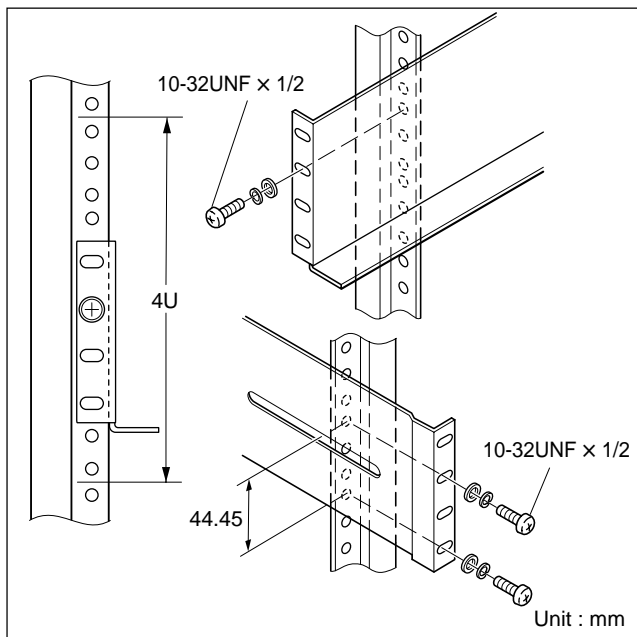
• Attaching the clip nuts

Attach the clip nuts to the rail attaching holes of rack as shown in the figure. (6 places)

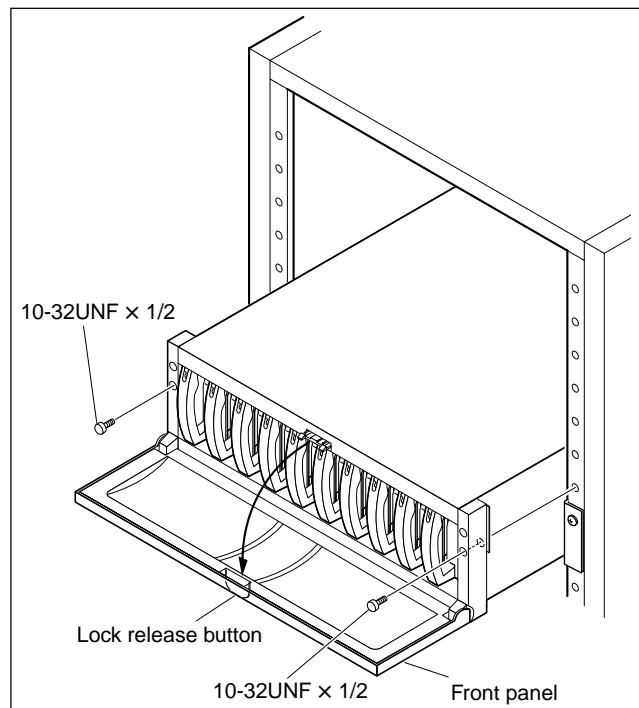


- (3) Attach the left and right rails to the rack completely using the supplied six screws, spring washers and plain washers each.

(The figure below shows the left rail.)



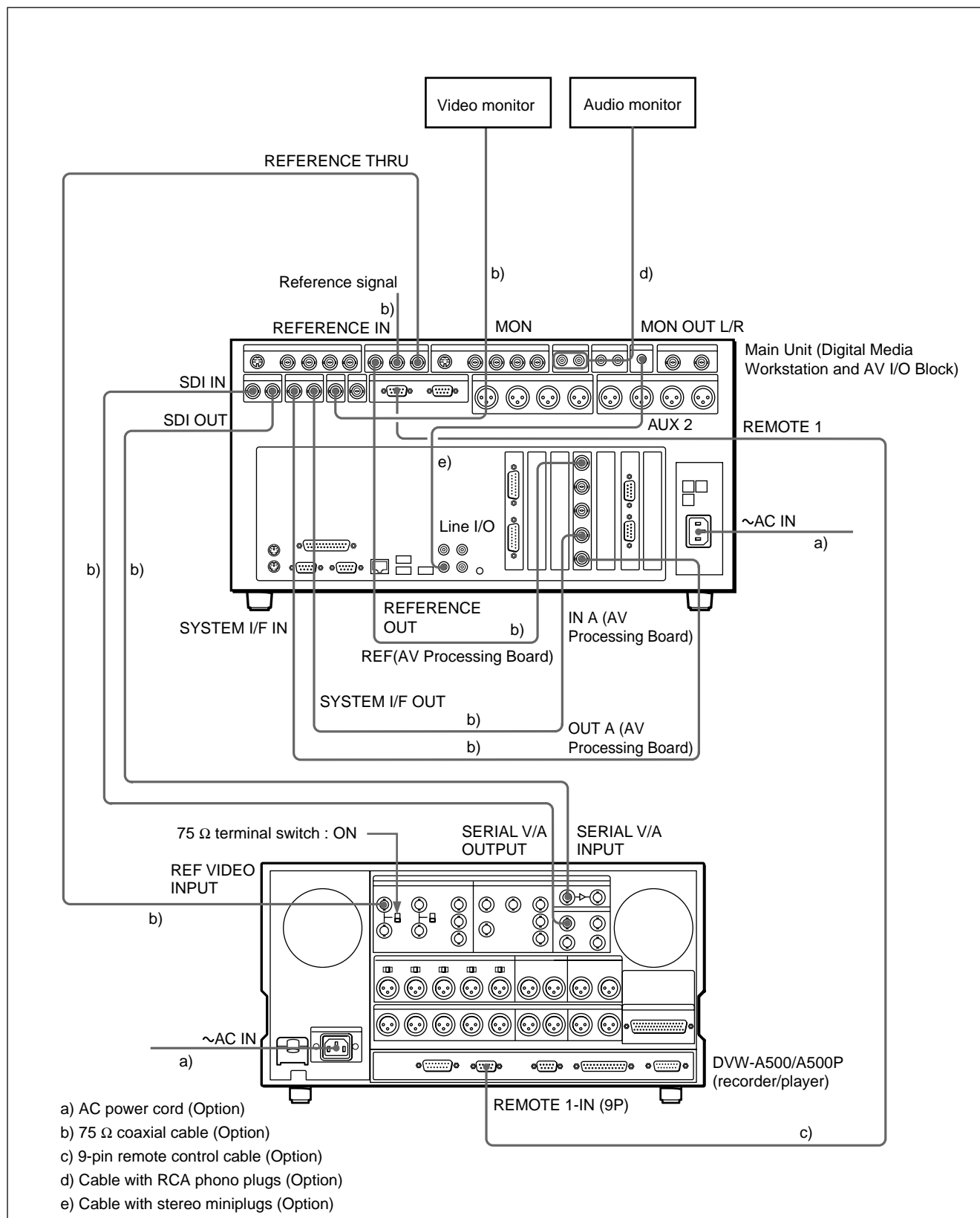
- (4) Tighten the nuts (three nuts each on the left and right) for adjusting the length of the rail completely [the nuts that were loosened in step (1)].
- (5) Put the unit on the rails and slide the unit to the rear.
- (6) Press the lock release button and open the front panel.
- (7) Fix the unit in the rack using supplied two screws and close the front panel.



1-8-2. Connection with Digital Betacam VTR

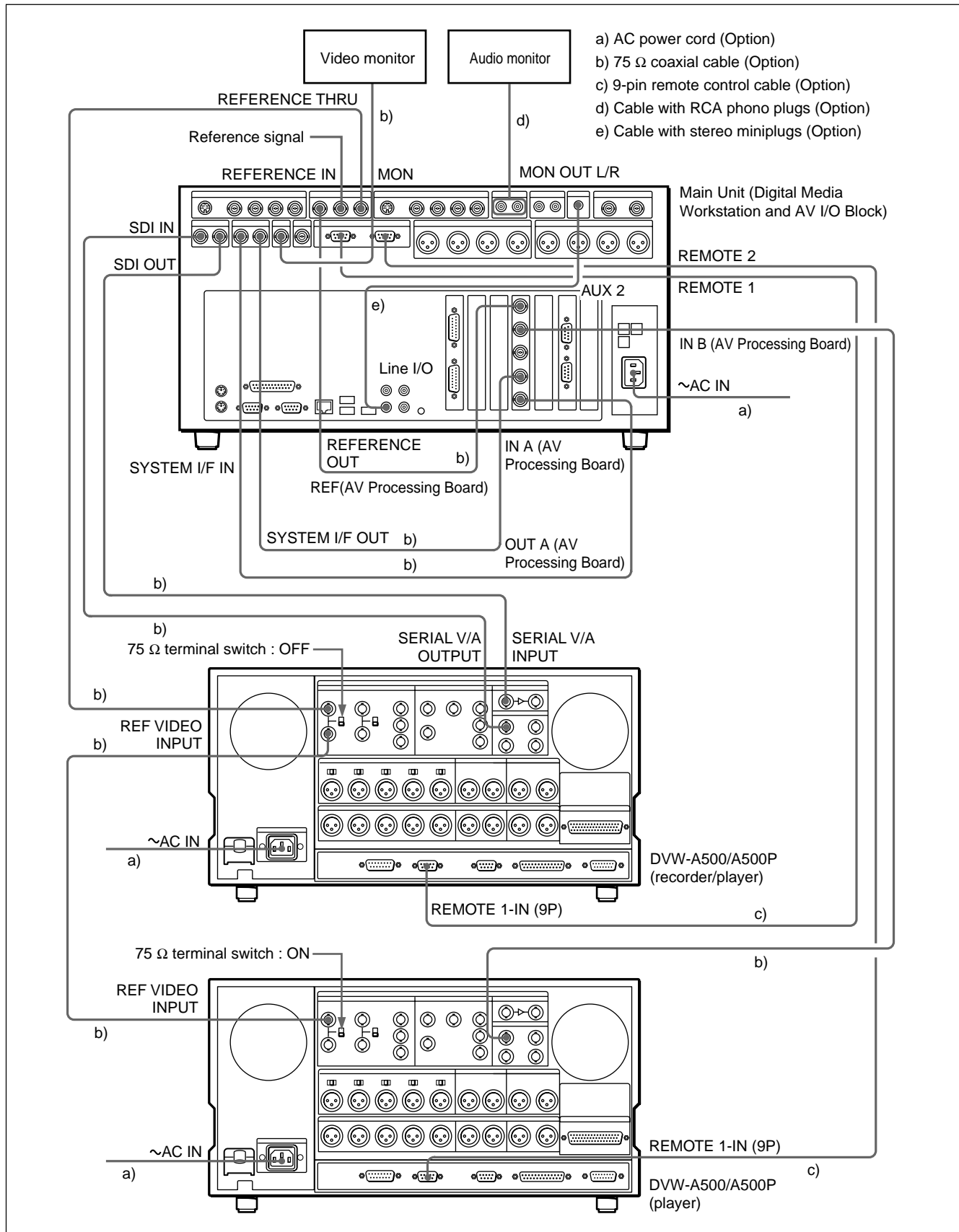
1. System using one digital VTR

The figure below shows a system using one DVW-A500/A500P VTR. (When connecting with DMW-S01NL)



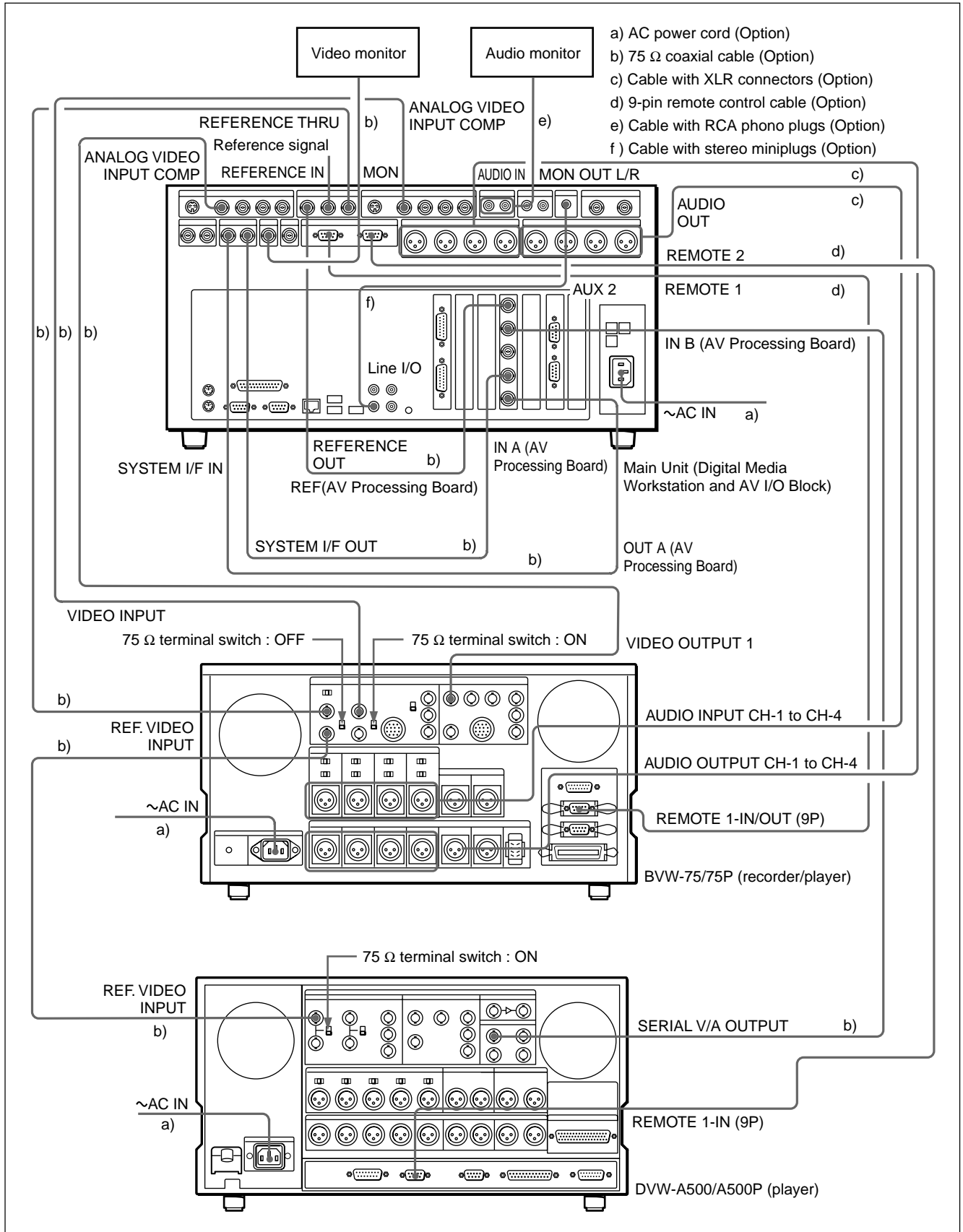
2. System using two digital VTRs

The figure shows a system using two DVW-A500/A500P VTRs. (When connecting with DMW-S01NL)



3. System using one analog and one digital VTR

The figure below shows a system using DVW-A500/A500P and BVW-75/75P VTRs. (When connecting with DMW-S01NL)

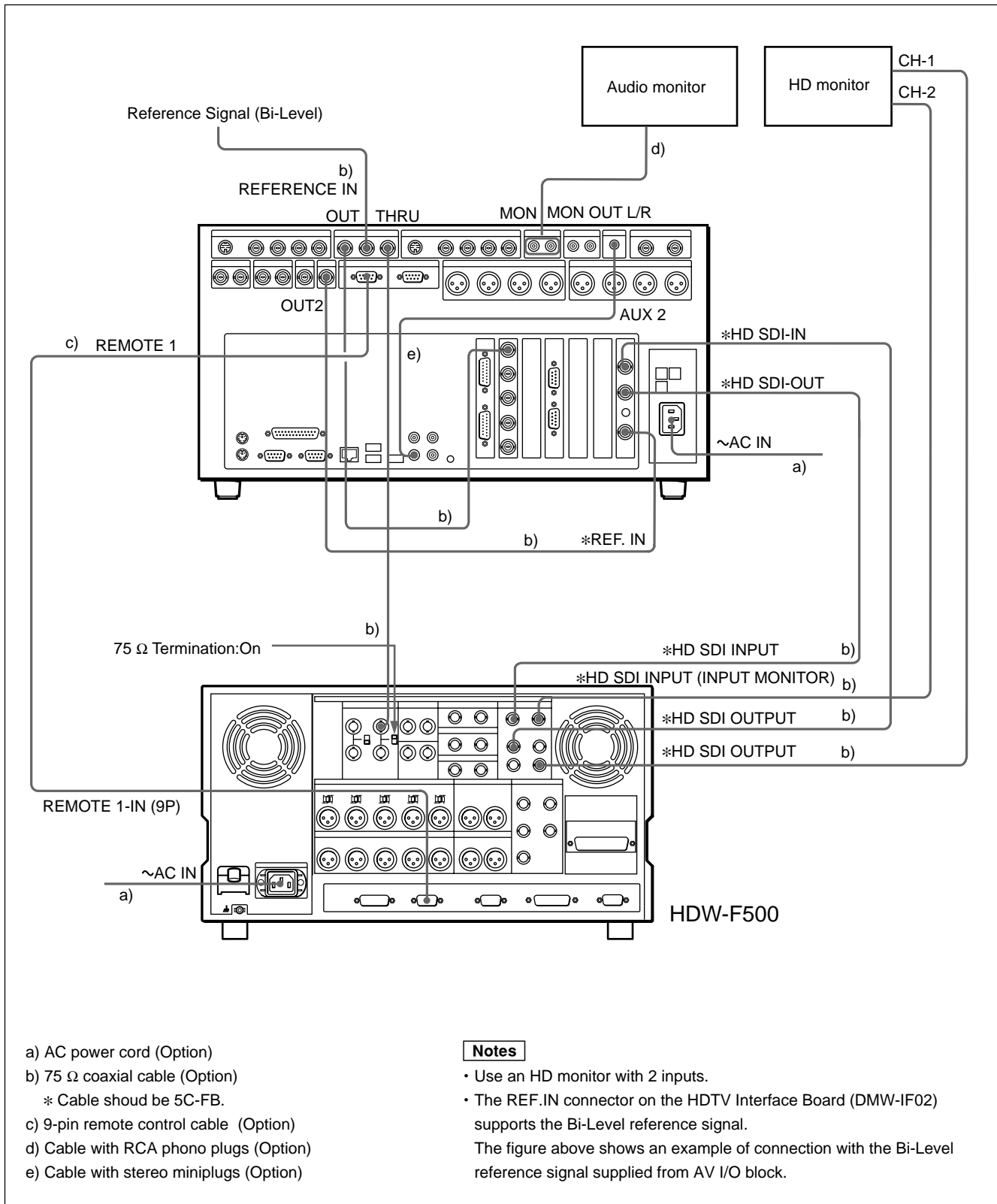


1-8-3. Connection with HD VTR

1. System editing with 1080/50i or 1080/59.94i mode

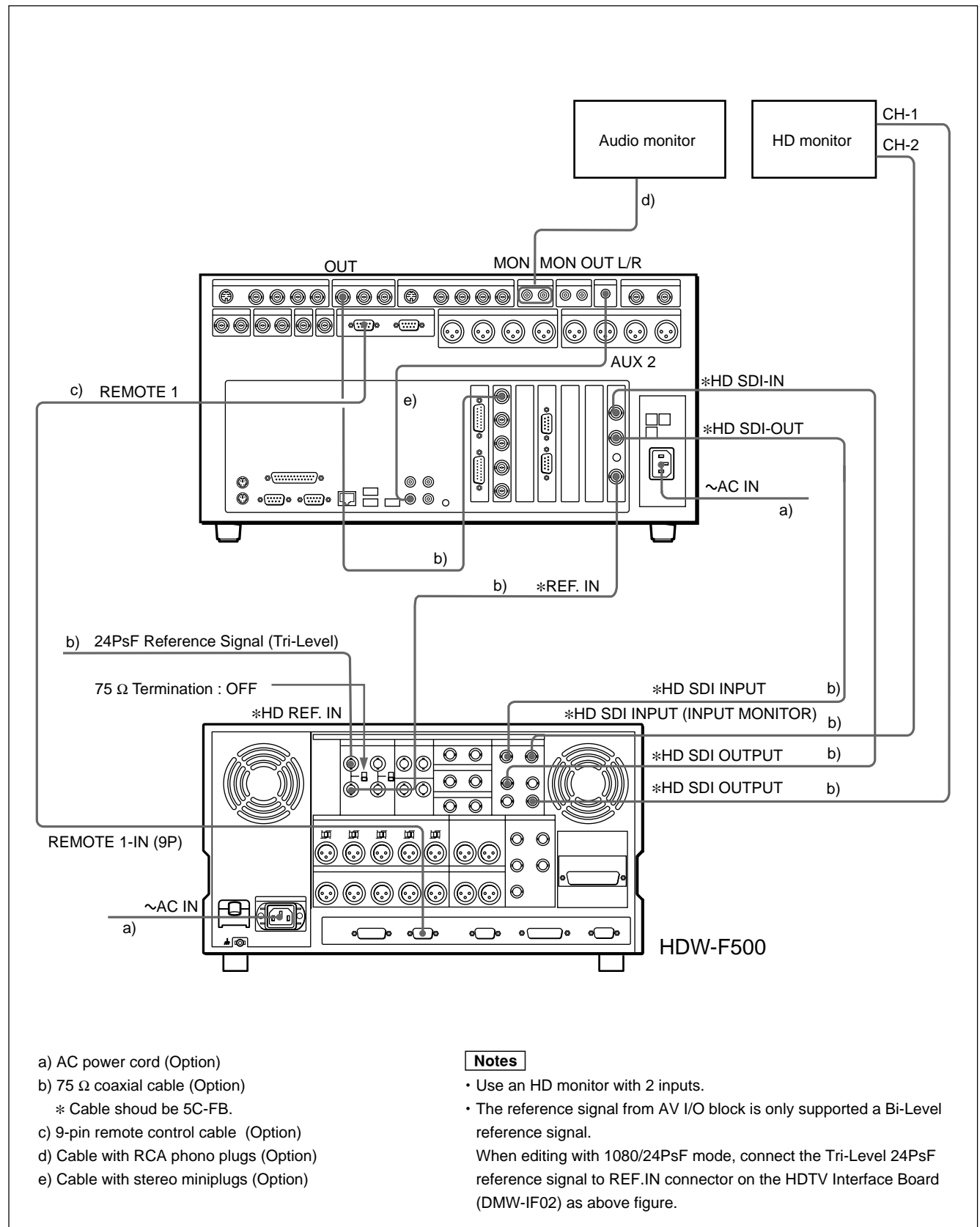
The figure below shows a system editing with 1080/50i or 1080/59.94i mode when using one HDW-F500 VTR.

(When connecting with DMW-S02NL/DMW-S01NL with DMW-IF02)



2. System editing with 1080/24PsF mode

The figure below shows a system editing with 1080/24PsF mode when using one HDW-F500 VTR.
(When connecting with DMW-S02NL/DMW-S01NL with DMW-IF02)



1-9. System Initial Setup

Check sheet

Here is initial set up flow. Please use this as your check sheet.

About the detail of procedure, please refer to the document which is attached from the next page.

Item	check
1. Windows 2000 Professional Set Up	-----
1) Input Product Key	
2) User Name, Organization, Administrator, Set your password	
3) Set your Network item	
2. Graphic board Device Driver Installation	-----
1) Choose the language	
2) Setup for the Dual Head	
3) Setup the Display property	
• Screen Area 2560 × 1024	
• Screen Colors True Color (32 bit)	
4) Set to OFF the BUS Master	
3. A/V Processing board Device driver installation	-----
1) Start D : \CODI\CODI_v1.1.exe	
2) Confirm the auto registration of Multi Media Control Driver after Re-boot	
4. Application Software Installation	-----
1) Start D : \Setup.exe	
2) Accept the License Agreement	
3) Input User Name and Organization	

1-9-1. System Startup and Shutdown

When you start up the system, power the Fibre Channel Storage Unit (Hereinafter shows DMW-ST001) on first, confirm the lower side of the dusk status indicator (green) is light up and no error occurs. Then power on peripherals, and finally the Main Unit.

1. Main Unit Startup

Check the following before you power the Main Unit on.

- That all of the equipment used by the system is connected correctly.
- If you have connected the power cord to a UPS (uninterruptible power supply) or other power regulator, that the UPS or other unit is powered on.

- (1) Power on all the peripherals connected to the Main Unit.
- (2) Connect the AC power cord of the Main Unit to an AC power source.
Hardware initialization diagnostics begin. During initialization (about 5 seconds), the STANDBY/ON switch of the Main Unit does not function.
- (3) After about 5 seconds, press the STANDBY/ON switch of the DMW-S01NL/S02NL to turn it on.

The MON indicator lights in green. After a few seconds, the Power On Self Test (POST) program starts.

Note

You can change settings while POST is executing, but POST stops executing if you do. If you do not intend to change any settings you should not touch the mouse or keyboard while POST is executing.

- (4) Windows 2000 starts when POST finishes executing.

- If a password dialog appears
A password entry appears during POST if you have used the BIOS Setup Utility to set a password.
You can try again twice if you make a mistake while entering the password for the first time. But Windows will not start if you fail to enter the correct password in the third attempt. In this case, press and hold the STANDBY/ON switch for 4 seconds or more to power the unit off, wait about 10 seconds, and try again after powering the unit on.

Note

You should not set a password.

- If an error message appears
If POST discovers a fault, it displays an error message and stops executing. (Refer to “Sec. 7-1” for error message.)

2. POST Execution

The Power On Self Test (POST) program starts automatically when the Main Unit is powered on. POST checks the status of the mother board, ECC memory modules, CPU module, keyboard, mouse, and so on.

While POST is executing, if you press the <ESC> key, messages appear on the screen to inform you of its progress. Messages from BIOS Setup Utilities also appear. If required, you can interrupt POST to change your BIOS settings.

The results of the POST are recorded in the DMW-S01NL/S02NL mother board.

Note

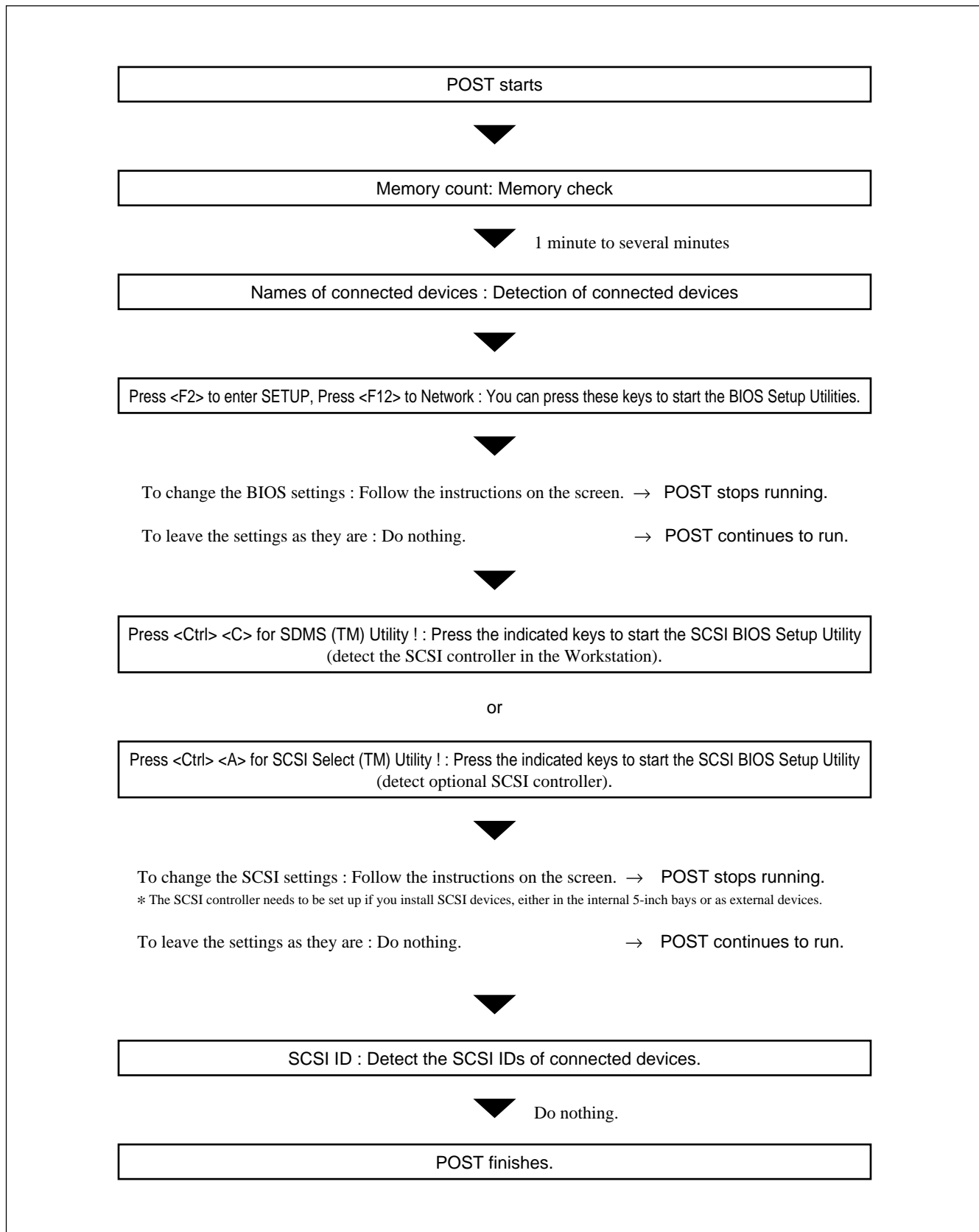
Normally the SONY logo is displayed. You can see POST display when you press the <Esc> key or when an error occurs.

You do not always need to be concerned with the contents of POST, but you should check the messages displayed on the screen in the following situations.

- When starting the Main Unit for the first time
- When you think the system may be malfunctioning
- When beep sounds are heard repeatedly between the time when you power the Main Unit on and the time when Windows 2000 starts
- When some of an error message appears on the screen

Information displayed by POST

The SONY logo is displayed while POST is running (except during the SCSI check), but the information in the following figure appears if you press the <Esc> key.



Notes

- Depending on your system configuration, messages instructing you to “Press Any Key” may appear. These are BIOS messages from installed option boards. Before pressing a key, you should consult the manual of the option board.
- If you install a new option board in a PCI slots, remove an existing board, or reinstall boards in different slots, POST may stop running after displaying a message to the effect that the configuration of the installed boards is incorrect.

If this occurs, press the <F1> key to restart POST, and use the BIOS Setup Utility to set or change the board configuration.

3. Main Unit Power Off

Proceed as follows to power the Main Unit off.

If you have connected the power cord to a UPS (uninterruptible power supply) or other power regulator, refer to the manual supplied with the UPS or to the documentation of the application controlling the UPS for information about powering off.

- (1) Shut down Windows 2000.
- (2) Power peripherals off.

1-9-2. Installing Graphic Board Driver

After turning the power on, first follow the Microsoft Windows2000 Professional Quick Start (Page 6 and after) to set up Windows.

The product key is adhered on the top of the DMW-S01NL/S02NL main unit. Then install the graphic board driver in the following procedure.

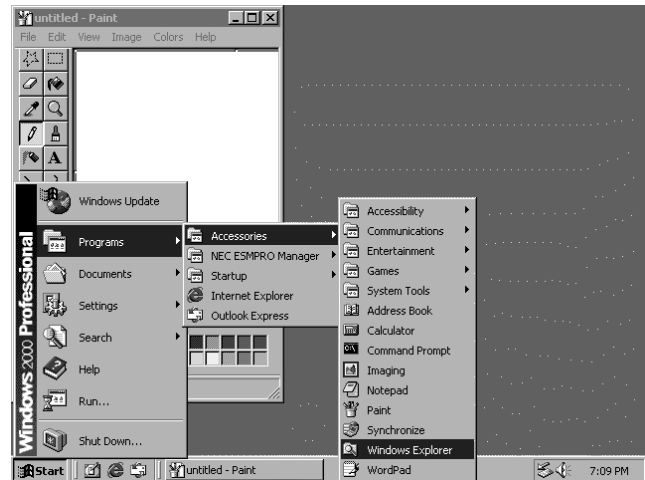
Notes

1. Be sure to log in with administrator. The default administrator is without password.
2. Connect two monitors to the system for dual-head setting.
3. Make sure to use the provided file for driver operation.

- (1) After log-in, Window appears. Go to step 2 directly.
(In this case, do not click “Cancel”.)



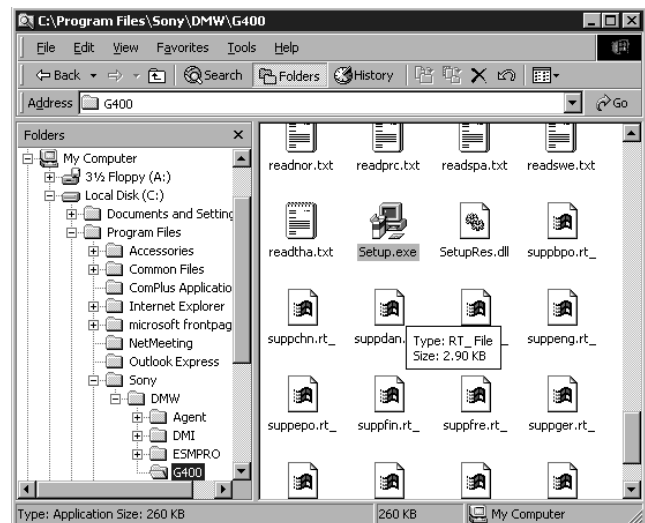
- (2) Start the explorer from the start menu.



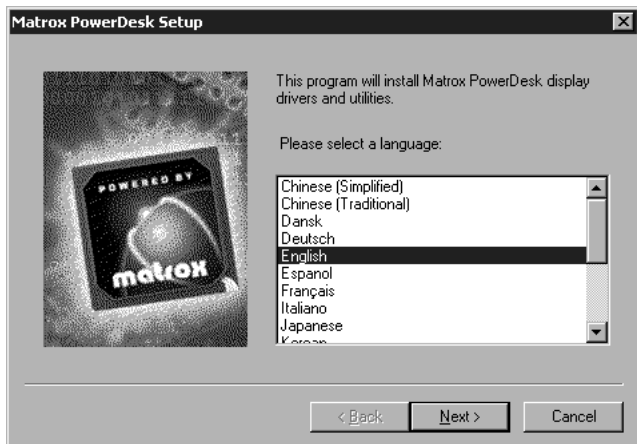
- (3) Activate
“C : \Programfiles\Sony\DMW\G400\Setup”.

- a) Click “My Computer”.
- b) Click “Local disk”.
- c) Click “Program Files”.
- d) Click “Sony”.
- e) Click “DMW”.
- f) Click “G400”.
- g) Double-click “Setup.exe”.

* Click “+” at the left side of the folder in “Folders” window.



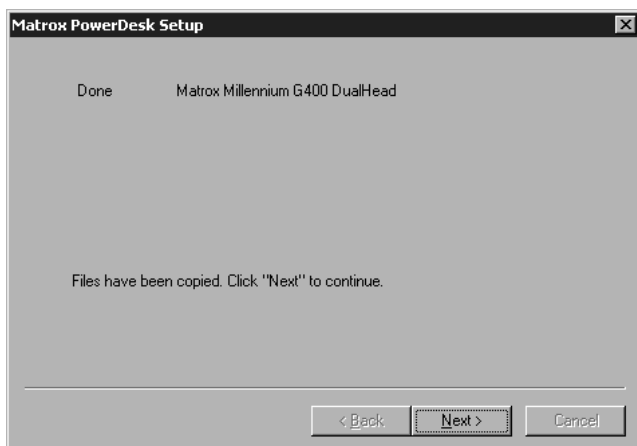
- (4) The installer of the driver starts. First select the language and then click “Next >”.



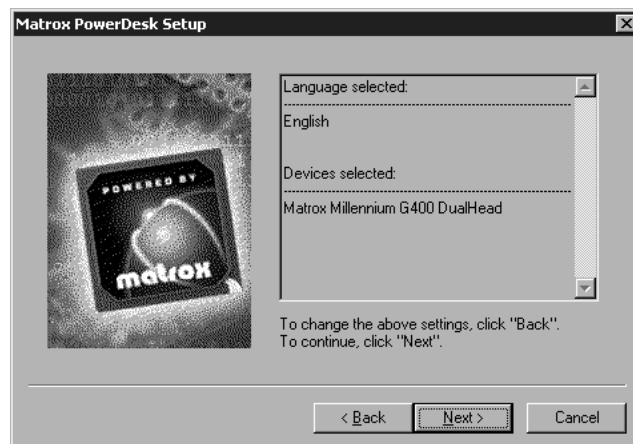
- (5) Click “Next >”.



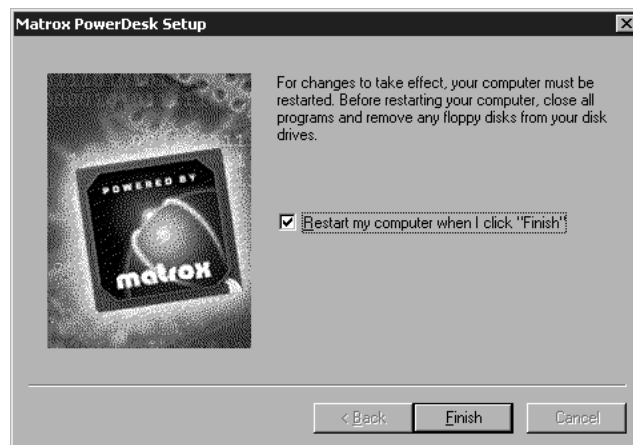
- (6) Click “Next >”.



- (7) Click “Next >”.

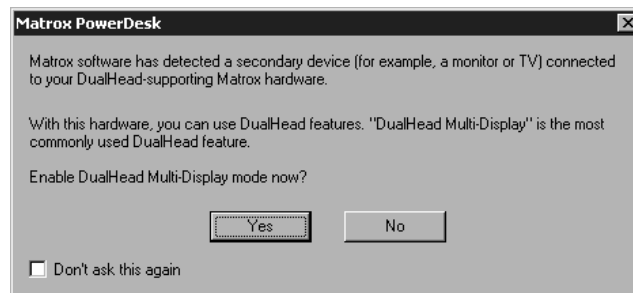


- (8) Click “Finish”.



- (9) Wait until the computer restarts. After the computer restarts, be sure to log in again with administrator.
(The default administrator is without password.)

- (10) Click “Yes”, DualHead setting appears.

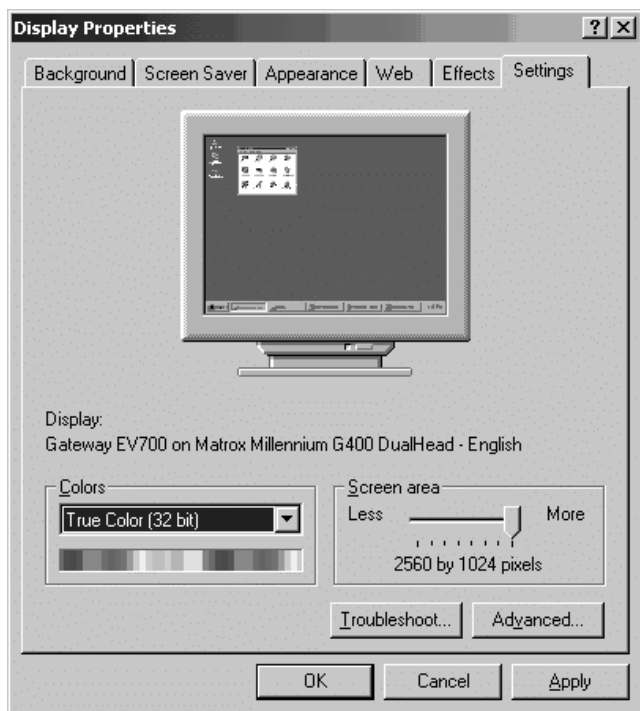


(11)Click “OK”.

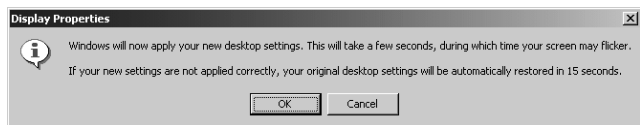


(12)Set up the property of the screen.

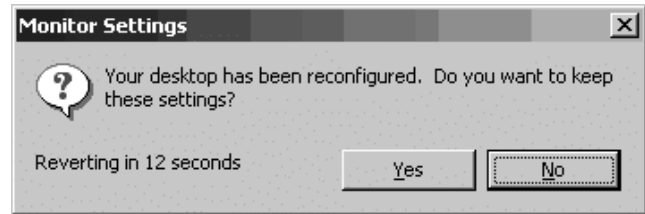
- a) Set the screen area to “**2560 × 1024**”.
- b) Set the screen color to “**True Color (32 bit)**”.
- c) Click “Apply”.



(13)Click “OK”.

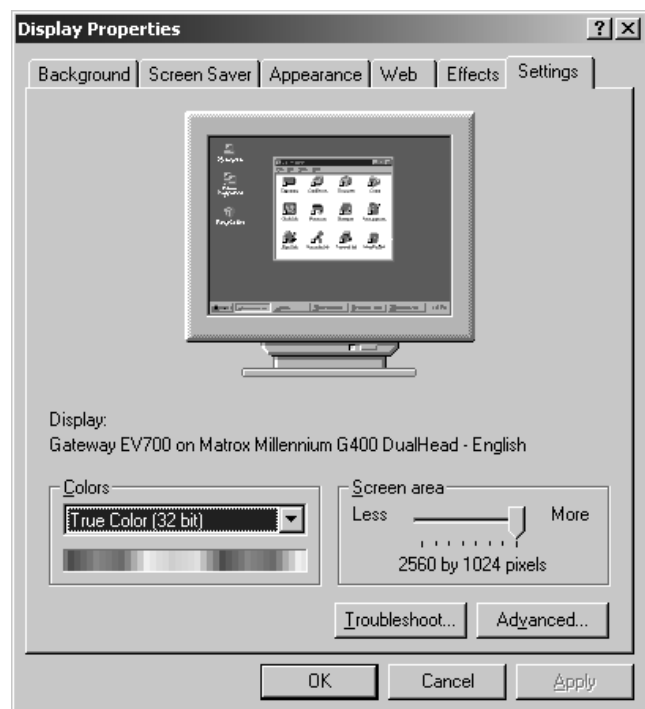


(14)Click “Yes”.

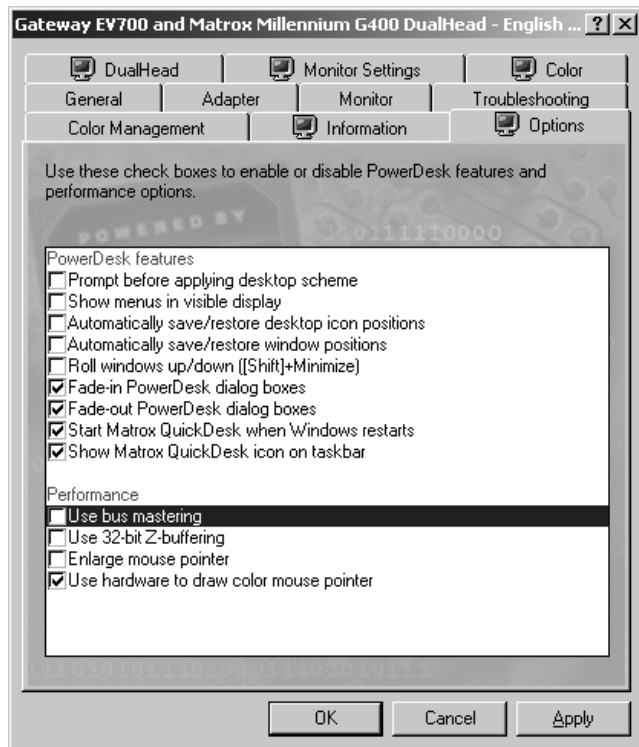


* If this window is not displayed normally ;
Change to the CRT monitor so that the screen area can be set to “2560 × 1024” and the screen color to “True Color (32 bit)”.

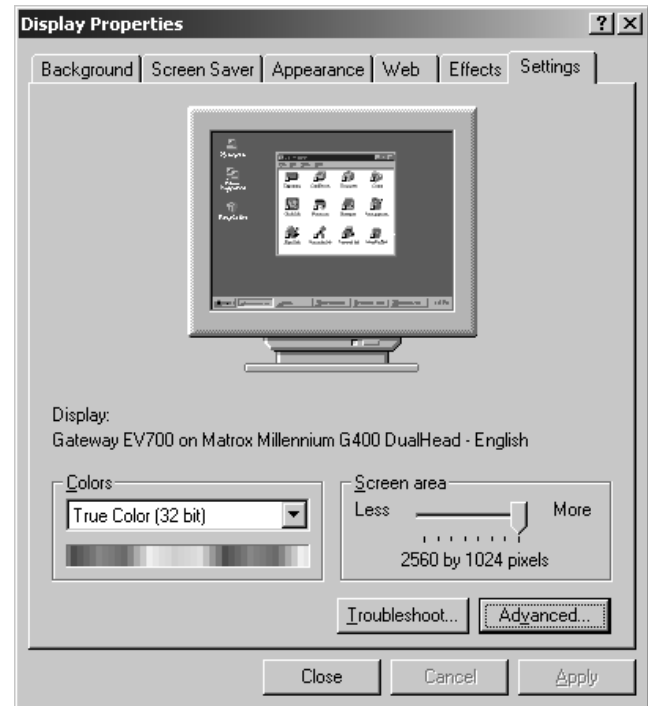
(15)Click “Advanced”.



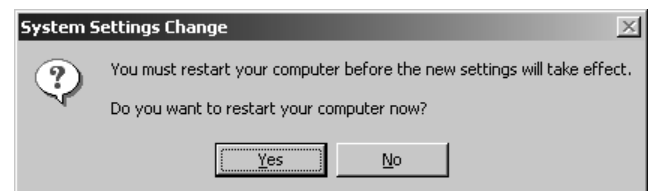
(16) Remove the check mark of “Use bus mastering” in the option tab, and click “Apply”.



(17) Click “Close”.



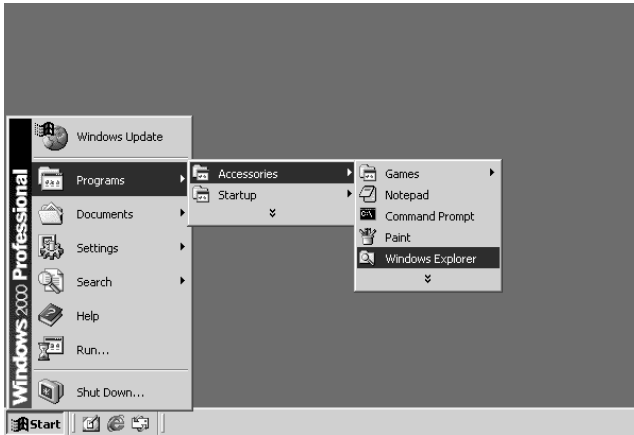
(18) Click “Yes” to restart the system.



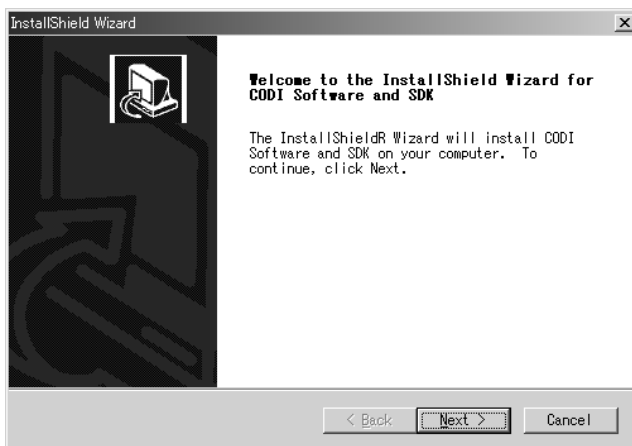
1-9-3. Installing AV processing board driver

Next install the AV processing board driver.

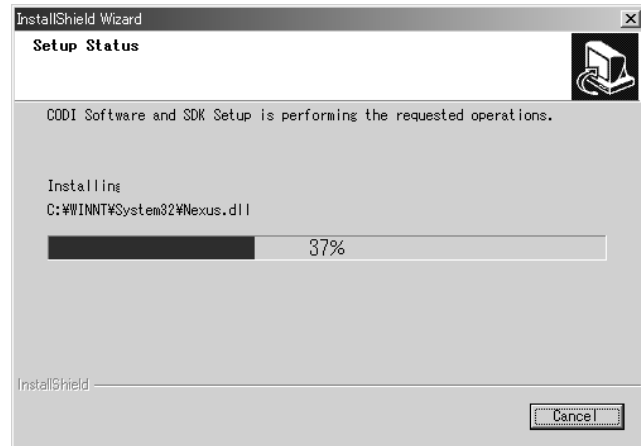
- (1) Insert the application installation CD-ROM in the CD-ROM driver. (The CD-ROM drive is hereinafter referred to as “D :”.)
- (2) Start the explorer from the start menu.



- (3) Start “D : \CODI\CODI_v1.1.exe”.
 - a) Click “My computer”.
 - b) Click “D drive”.
 - c) Click “CODI”.
 - d) Double click “CODI_v1.1. exe”.
- (4) As shown below, the AV processing board installer starts. Click “Next >”.



- (5) The installation of the driver begins. Wait until the installation ends.



- (6) After the installation end, the restart confirmation screen below appears. Click “Finish” to restart the system.



- (7) After restart, log in with administrator and confirm that the multi-media controller driver is registered automatically.

1-9-4. Installing Applications Programs

Notes

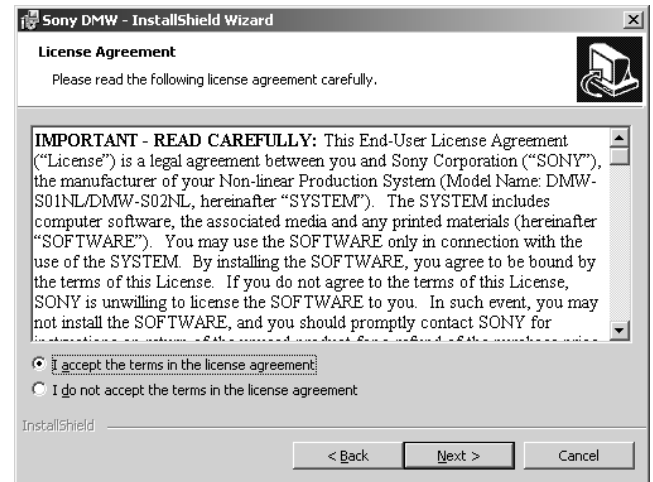
- Finally install application programs. Be sure to end the installation of the AV processing board driver before installing applications.
- Other drivers, not only the AV processing board driver, are also installed at this time. Four kinds of control panels need to be connected through USB. Leave the AC adaptor power switch on during the installation. Also, a window asks for drivers before the installation, yet ignore the window (no cancel) and begin the installation.

Procedure

- (1) Insert the application installation CD-ROM in the CD-ROM. (The CD-ROM drive is hereinafter referred to as a “D :”.)
- (2) Start “D : \Setup.exe” from the explorer.
- (3) As shown below, the application installer is set up. Click “Next >”.



- (4) The usage approval contract clauses are displayed. Select “I agree with the usage approval contract clauses.” and click “Next >”. If the “Program maintenance” screen appears instead of the following screen, refer to “Sec. 1-9-5. Reinstalling Applications” described below.



- (5) Enter the user name and position, select “All users who use this computer”, and click “Next >”.

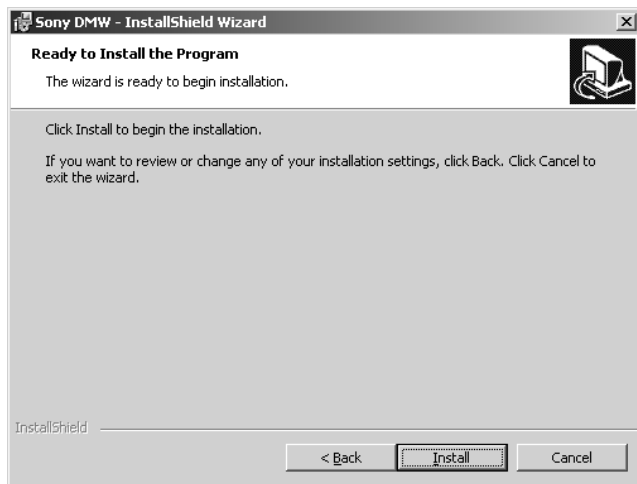


(6) Select “All” and click “Next >”.



(7) Click “Install”.

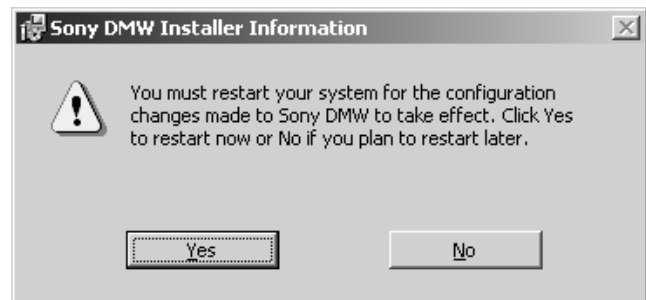
(8) The installation begins.



(9) After the installation end, the screen below appears. Click “Finish”.



(10) The restart confirmation screen appears. Click “Yes” to restart the system.



1-9-5. Reinstalling Application Programs

When an application program is already installed, it must be uninstalled once.

Procedure

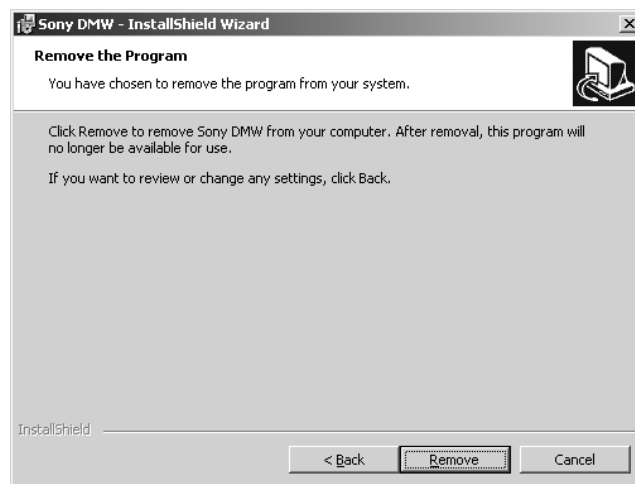
- (1) Insert the application installation CD-ROM in the CD-ROM driver. (The CD-ROM drive is hereinafter referred to as “D :”.)
- (2) Start “D : \Setup.exe” from the explorer.
- (3) As shown below, the application installer is set up. Click “Next >”.



- (4) Select “Remove,” and click “Next >”.



- (5) Click “Remove”.



- (6) The uninstallation starts.
- (7) After the uninstallation end, the screen below appears. Click “Finish”.



- (8) Install the applications while reference to “Sec. 1-9-4”.

1-9-6. Fibre Channel Storage Unit Setup
Configuring Logical Drives

You can combine the HDD (The hard disk drive is herein- after referred to as a “HDD”.) contained in the Fibre Channel Storage Unit to construct logical drives with the capacity and performance required by your application.

1. RAID

By combining multiple HDD into a RAID, you can create logical drives with greater capacity and higher perfor- mance than the individual HDD in the logical drive. The RAID level used by this system is RAID 0 (simple strip- ing). RAID 0 has the advantage of high throughput, because data can be accessed simultaneously on multiple HDD. However, note that RAID 0 uses no redundant parity bits. Therefore, all of the data on a logical drive is lost if any of the HDD in the drive fails.

2. Starting the Disk Utility

Use the Disk Utility to configure logical drives. The Disk Utility is a maintenance program for the Fibre Channel Storage Unit. It allows you to construct and release RAID, and to manage the data and logs of the Fibre Channel Interface Board and HDD.

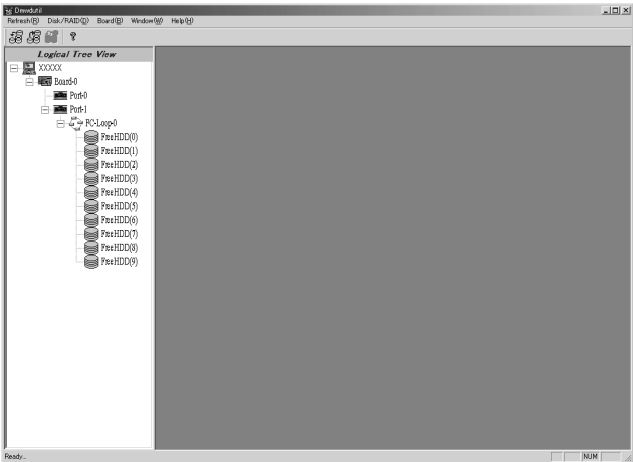
Note

You must log on to Windows 2000 as a member of the Administrators Group in order to use the Disk Utility.

To start the Disk Utility

Start Windows 2000 and select “Start” → “Program (P)” → “Sony DMW” → “DiskUtility”.

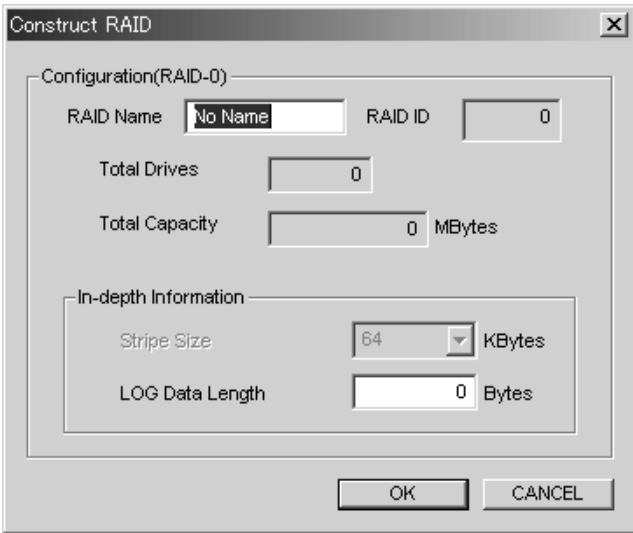
The Disk Utility starts and the main window appears. The left side of the window shows the current state of the system with the existing RAID configuration, HDD, and Fibre Channel Interface Board represented as icons.



3. Creating RAID

When using the Sony Editing Software, two RAID must be created: one for video data and one for audio data. Proceed as follows.

- (1) Trace down through the tree structure on the left side of the main window, confirming that there are free HDD (FreeHDD) under “PC” → “Board” → “Port” → “FC-Loop”.
 - (2) On the menu bar, select “Disk/RAID (D)” → “Con- struct RAID (C)”.
- The Construct RAID dialog appears.



- (3) Select the icons of the HDD to use from the tree structure.

For SDTV system

Select six or more HDD for video data and one or more hard disk drive for audio data.

For HDTV system

Select six or more HDD for video data per Fibre channel port (at least 12 drives in total) and one or more hard disk drive for audio data.

- (4) Set the “Configuration” parameters.

The following parameters are displayed.

RAID Name : Enter the name you want to give to the RAID.
RAID ID : The ID of the RAID is displayed.
Total Drives : The total number of HDD is displayed.
Total Capacity : The total capacity of all of the HDD is displayed.

- (5) Set the “In-depth Information” parameters as required.

The “In-depth Information” parameters are as follows.

Stripe Size : Specify the unit size for writing to the HDD (4 to 1024 KB).
LOG Data Length : Specify the size of the log area within firmware (0 to 2048 bytes). Specifying 0 sets the system default value.

- (6) Click the “OK” button.

When processing ends, the following dialog appears.



If you want to enable the settings immediately, click “Reboot Now” button to reboot the Main Unit.

If you want to continue by creating or releasing more RAID, click the “CLOSE” button to close the dialog.

4. To execute an NTFS format

Use the “Disk Management” tool. To start the “Disk Management” tool, select “Start” → “Settings” → “Control Panel” → “Management Tools” → “Computer Management”, and click the “Disk Management” folder. (Refer to “Sec. 5-6-5”)

5. Releasing RAID

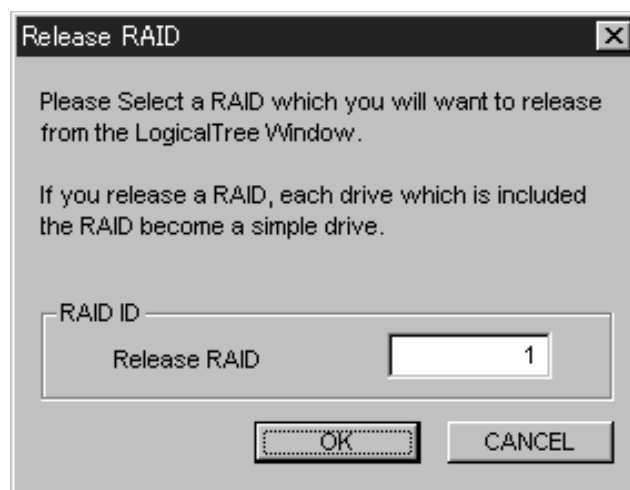
Use the following procedure to release a RAID when it is no longer needed.

Note

Be careful when releasing RAID, because they cannot be recovered once released.

- (1) On the menu bar, select “Disk/RAID (D)” → “Release RAID (R)”.

The Release RAID dialog appears.



- (2) Trace down through the tree structure on the left side of the main window, and select the icon of the RAID that you want to release.
The RAID ID of the RAID you selected appears in the Release RAID dialog.
- (3) Click the “OK” button.
When processing ends, the following dialog appears.



If you want to enable the settings immediately, click the “Reboot Now” button to reboot the Main Unit.
If you want to continue by creating or releasing more RAID, click the “CLOSE” button to close the dialog.

1-10. Installation of DMW-IF02

1-10-1. Installing to DMW-S01NL

Component of DMW-IF02

- IF02 Assy
- EX-849 board
- Flexible flat cable (30 pins)
- HDVD cable
- AUD cable

Procedures

Note

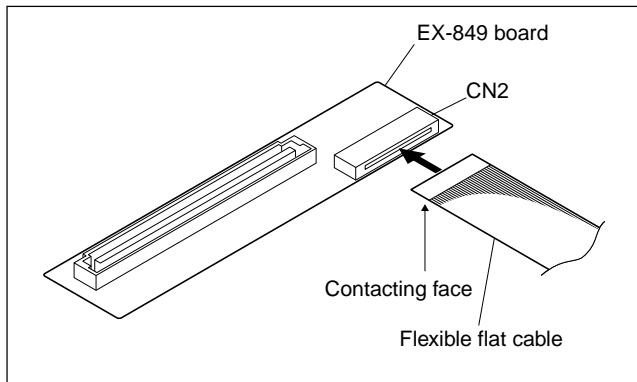
Performs the following serial number of product only for procedures 5 to 8.

For J models : Serial No. 30001 to 30015

For SY models : Serial No. 10001 to 10050

1. Turn off the power of all systems, disconnect of all cables connected to a DMW-S01NL.
2. Remove the three screws (+B4 × 6) on the rear panel of the unit, slide the AV I/O block toward backward and then remove it. (Refer to Sec. 2-1-2.) Also, place the removed AV I/O block to the right side of the unit.
3. Remove the four screws (PWH3 × 5), remove the PCI duct. (Refer to Sec. 2-1-3. 1. b)
4. Remove the two screws (PSW3 × 6), remove the card stopper. (Refer to Sec. 2-1-3. 1. b)
5. Remove the screw (PSW3 × 6), remove the connector panel of the slot 1.
6. Remove the one screw (PWH3 × 5), remove the AV processing board installed to the slot 3, then install it to the slot 1.
7. Remove the one screw (PWH3 × 5), remove the DSK-11 board installed to the slot 5, then install it to the slot 3.
8. Install the connector panel, which is removed from the slot 1 to slot 5.
9. Remove the one screw (PSW3 × 6), remove the connector panel of the slot 6.

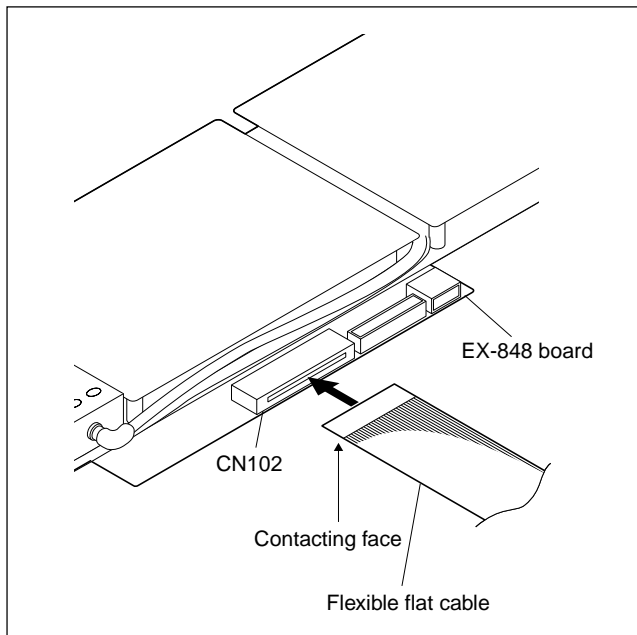
10. Connect the flexible flat cable (30 pins) to CN2 on the EX-849 board.



Note

When connecting, make sure put contacting face of the flexible flat cable to bottom side, then connect it to CN2 of the EX-849 board.

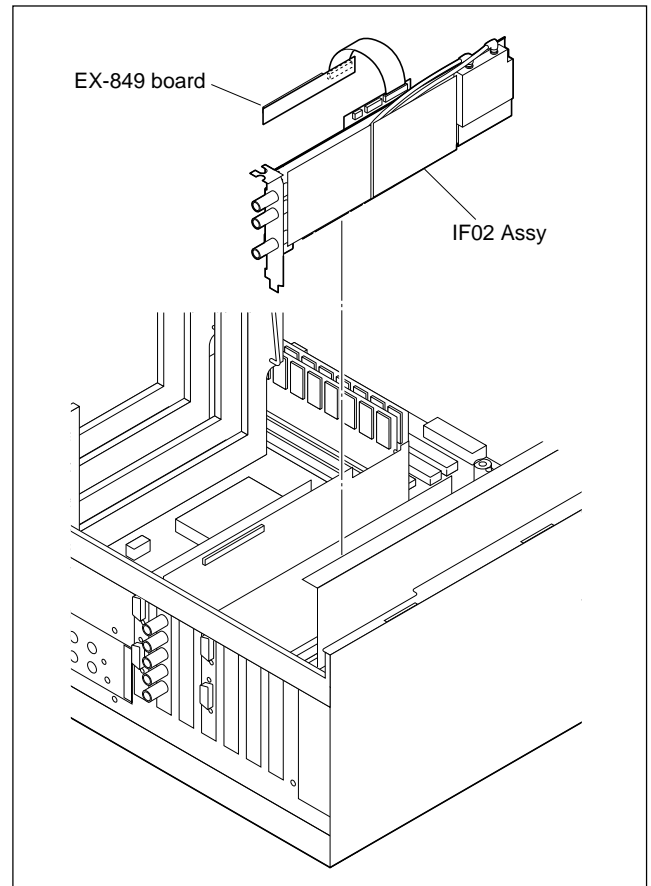
11. Connect another side of the flexible flat cable (30 pins) to CN102 of the EX-848 board installed on the IF02 Assy.



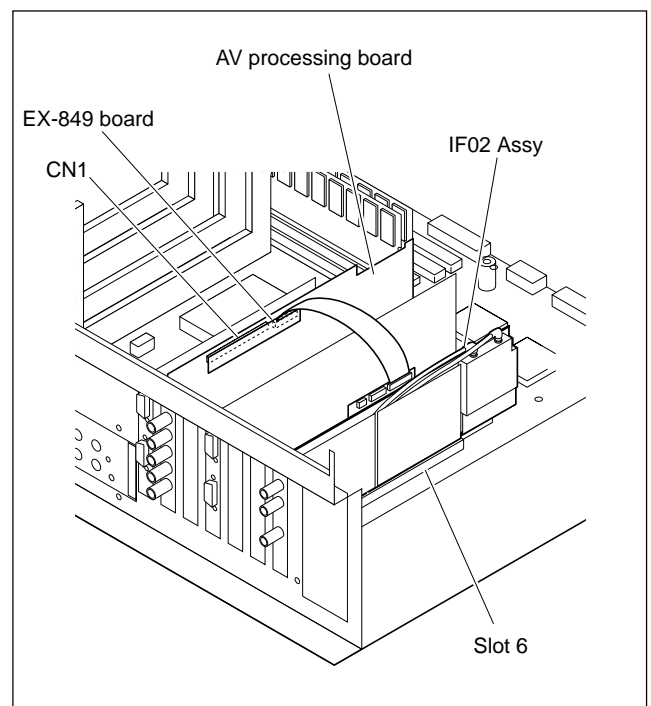
Note

When connecting, make sure put contacting face of the flexible flat cable to bottom side, then connect it to CN102 on the EX-848 board.

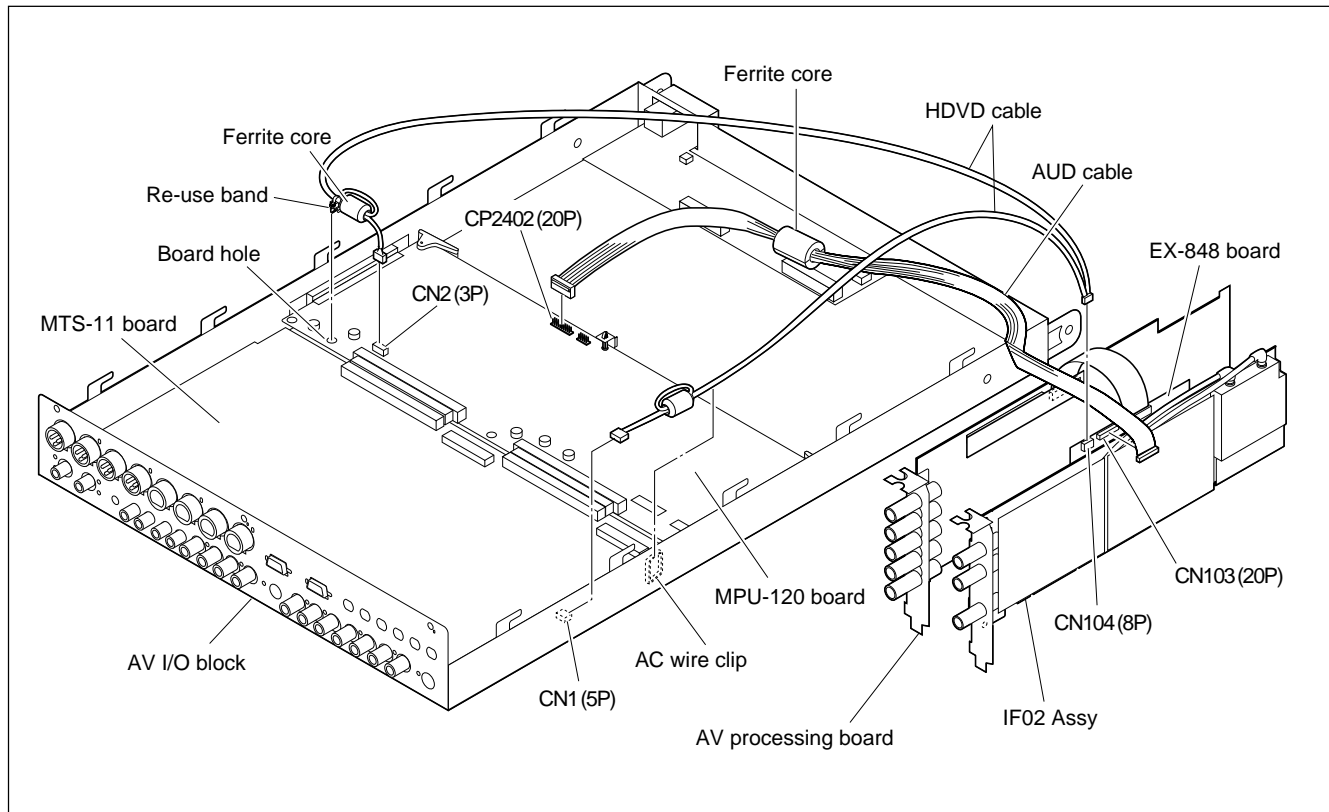
12. Install the IF02 Assy to the slot 6.



13. After installing the IF02 Assy, connect CN1 on the EX-849 board to the 180P connector on the AV processing board.

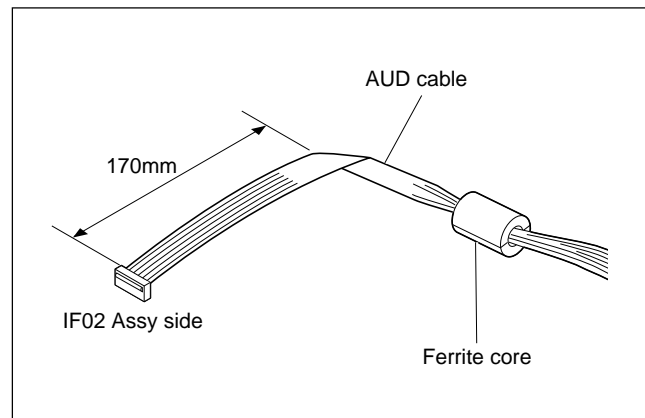
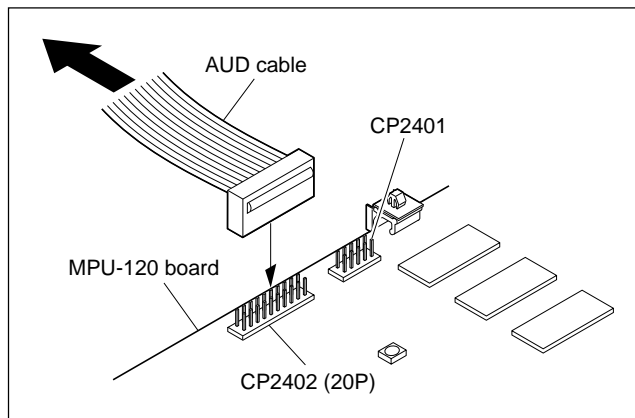


14. Connect 8-pin connector of the HDVD cable to CN104 on the EX-848 board.
15. Connect 3-pin connector of the HDVD cable to CN2 on the MPU-120 board.
16. Insert the pin of re-use band firmly attached to the HDVD cable, to board hole of the MPU-120 board.
17. Connect 5-pin connector of the HDVD cable to CN1 on the MTS-11 board.
18. Fix the HDVD cable by inserting it into the AC wire clip shown in below figure.
19. Connect the AUD cable (20 pins flat cable) to CN103 on the EX-848 board.
20. Connect another side of the AUD cable to CP2402 on the MPU-120 board.



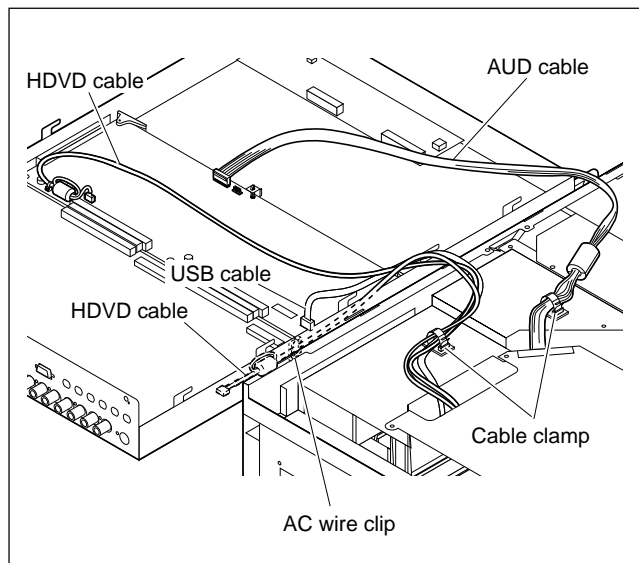
Notes

1. When connect the AUD cable to CP2402 on the MPU-120 board, make sure that flat cable of it is set to arrow direction as shown in below figure.
2. After connecting the AUD cable, bend it at about 170 mm distance of the IF02 Assy side connector as shown in below figure.



When installing, press the reverse side of the board (the opposite of connector inserting side) by finger etc. not to bend it.

21. Check that each connectors are connected securely.
22. Set around each cables as shown in below figure.



23. Install the card stopper.
24. Install the PCI duct.
25. Install and fix the AV I/O block to the unit.

Note

When installing, be careful not to catch the each cables.

1-10-2. Setup after installing

1. Clear the hardware configuration information.
(Refer to Sec. 5-1-4. 2. Advanced)
 - ① Turn on the power of the unit.
 - ② When the "SONY" logo appears on the screen, press the <F2> key.
 - ③ Wait until BIOS setting screen is displayed.
 - ④ Select the "Advanced" menu using arrow key <→>.
 - ⑤ Select "Advanced" at most top item from the "Advanced" menu, press the <Enter> key.
 - ⑥ Select "Reset Configuration Data" at second top item from the "Advanced" menu, press the <Enter> key.
 - ⑦ As default setting is "No", so press the <Enter> key to set "Yes".
 - ⑧ After setting, select "Save & Exit" (<F10>), press the <Enter> key.
2. Install the application and driver.
3. Perform the operating confirmation using self diagnostics functions of the IF02 Assy (DMW-IF02) utility.
(Refer to Sec. 5-7-4)
4. Connect the Fibre channel storage unit DMW-ST001 to the unit, perform the disk reconfiguration.
(Refer to Sec. 5-6-5)

Note

When reconfiguring, all created data file has been cleared on the DMW-S01NL.

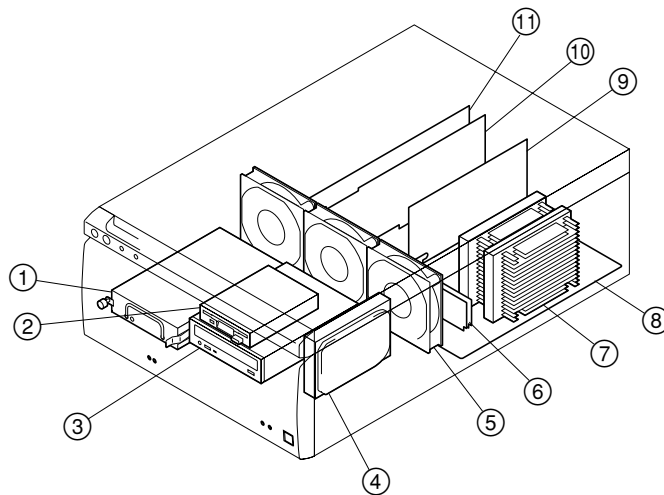
Section 2

DMW-S01NL/DMW-S02NL/DMW-IF02 Service Overview

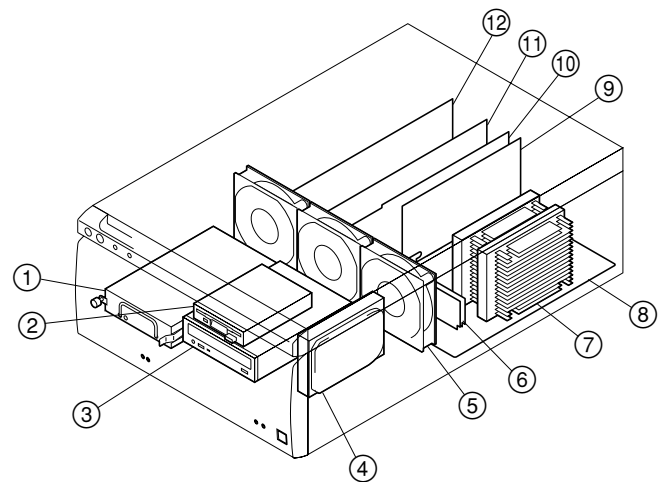
2-1. Digital media workstation/AV I/O block

2-1-1. Location of Main Parts

1. Digital media workstation

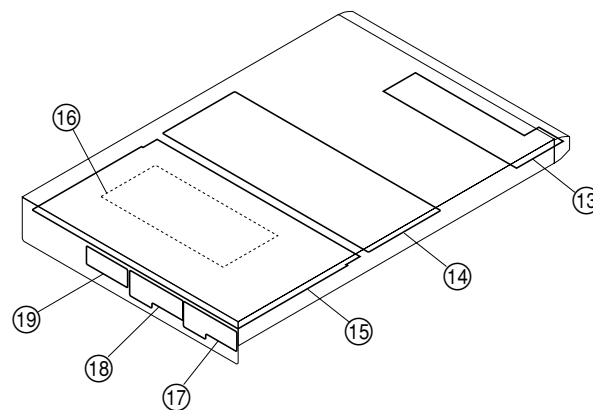


<DMW-S01NL>



<DMW-S02NL>

2. AV I/O block



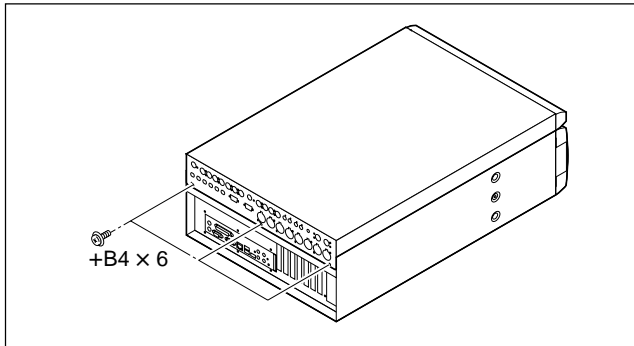
- ① Power module
- ② FDD
- ③ CD-ROM drive
- ④ HDD
- ⑤ Cabinet fan
- ⑥ DIMM
- ⑦ CPU
- ⑧ Mother board

- ⑨ Graphic board
- ⑩ AV processing board
- ⑪ DSK-11 board
- ⑫ IF02 Assy (DMW-IF02)
- ⑬ AH-65 board
- ⑭ MPU-120 board
- ⑮ MTS-11 board
- ⑯ YC-68 board

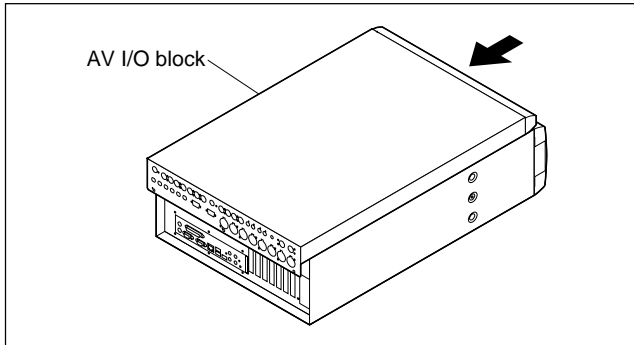
- ⑰ CN-2068 board
- ⑱ CN-2069 board
- ⑲ CN-2080 board

2-1-2. Removal of AV I/O Block

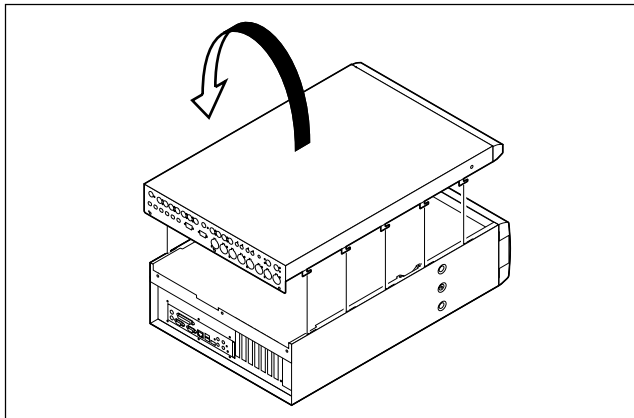
- (1) Remove the three screws (+B4 × 6) of the rear panel.



- (2) Slide the AV I/O block toward backward in the arrow direction on the figure.



- (3) Turn the AV I/O block to right side, which take the front view of the unit in the arrow direction on the figure, then remove it.



Notes

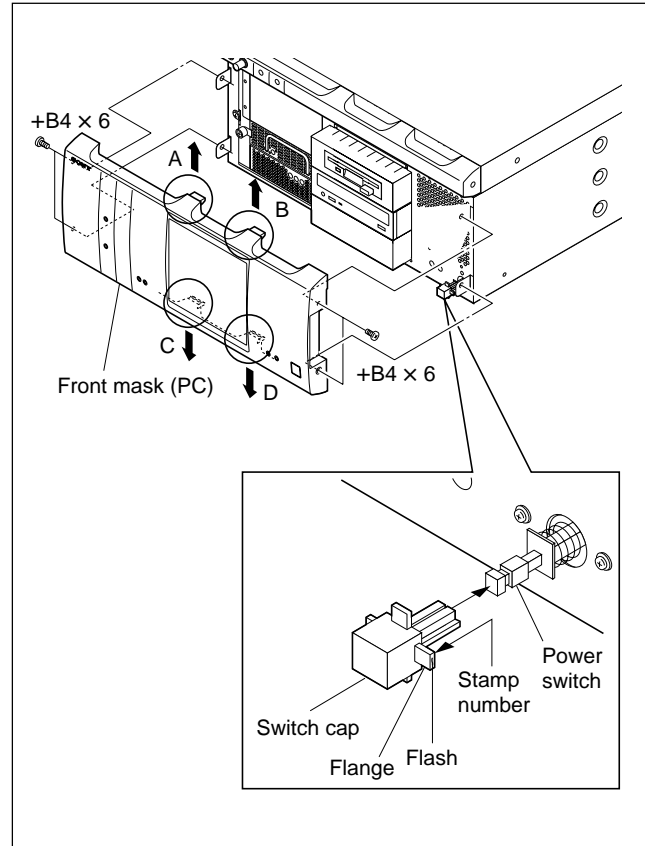
- When removing or replacing the unit, be sure to maintaining the space in full for performing it.
- When sliding the AV I/O block toward backward, it is required to heavy physical force. Therefore, make sure to working it more than two persons.
- When removing the AV I/O block, be careful not to pull the two connected cables as well as not to damage them.

2-1-3. Replacement of Main Parts

1. Digital Media Workstation

a) Power Module

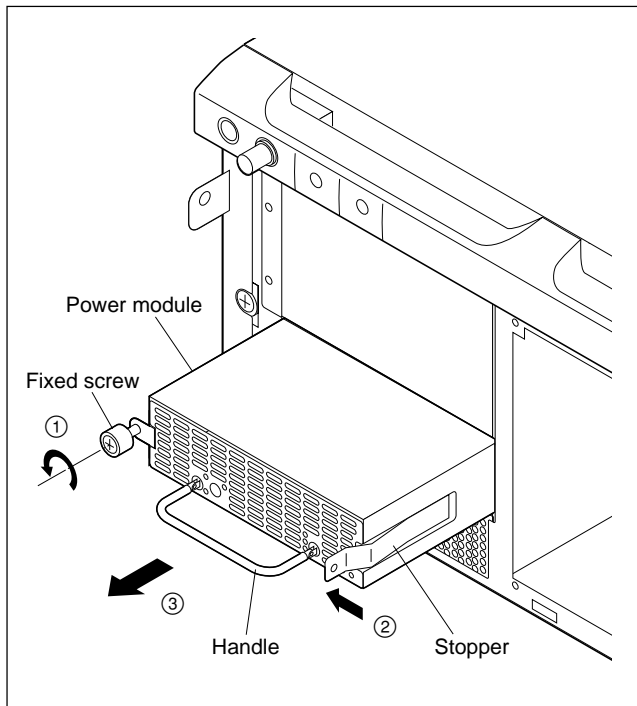
- (1) Slide the AV I/O block toward backward.
(Refer to "Sec. 2-1-2".)
- (2) Remove the four screws (+B4 × 6).
- (3) Release the two claws to pull the front mask in front side while lifting up the following A and B portions on the figure.
- (4) Release the two claws to pull the front mask in front side while pulling down the following C and D portions on the figure.
- (5) After confirming that these claws was released, remove the front mask (PC).



Note

When removing the front mask (PC), the switch cap comes out from the power switch in some cases. In this case, be sure to insert the switch cap correct direction to the power switch as shown in the figure. (Set the stamp number on the flange facing in back and the flash side to the right side direction.)

- (6) Loosen the fixed screw (arrow direction ①) and set up the handle of the power module and pull the handle toward in front (arrow direction ③) while pushing the stopper toward left side (arrow direction ②), then remove the power module.



Adjustment after replacement of the power module

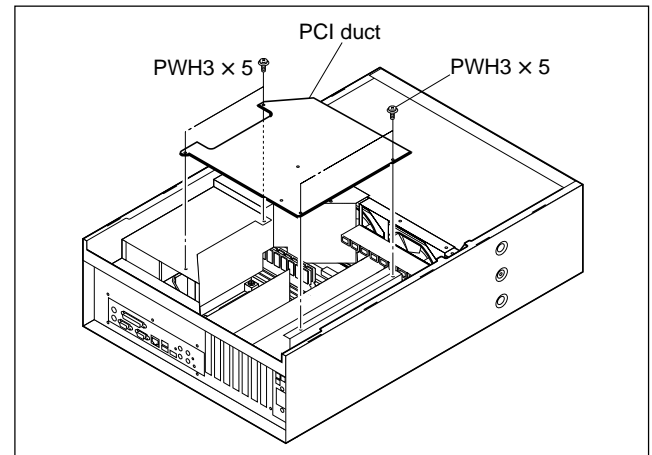
After replacing the power module, perform the operation check of each items using the utility software “I-Ciser”. (Refer to “Sec. 5-2-1”.)

Notes

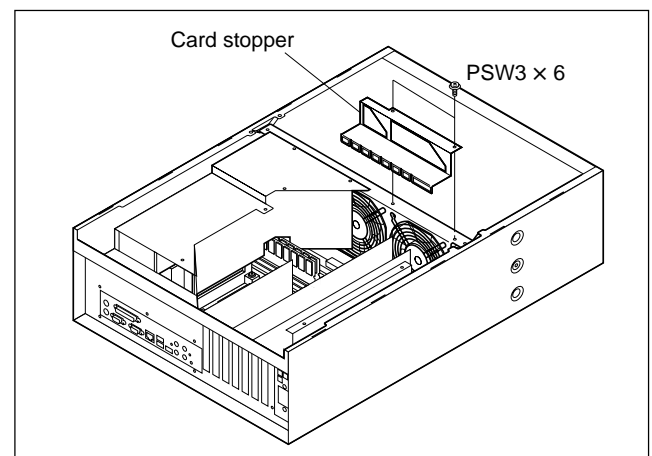
- After replacing the power module, be sure to perform the operation check, then perform the reassembling of each parts.
- When reinstalling the front mask (PC), be sure to put back the handle of the power module to its place.

b) Cabinet Fan

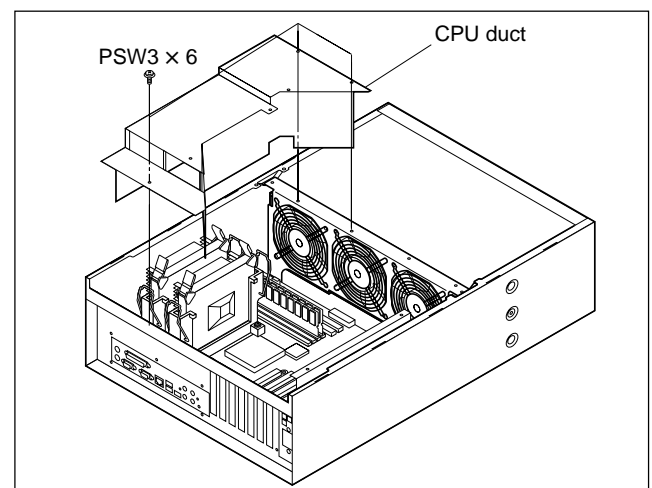
- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the four screws (PWH3 × 5) and remove the PCI duct.



- (3) Remove the two screws (PSW3 × 6) and remove the card stopper.

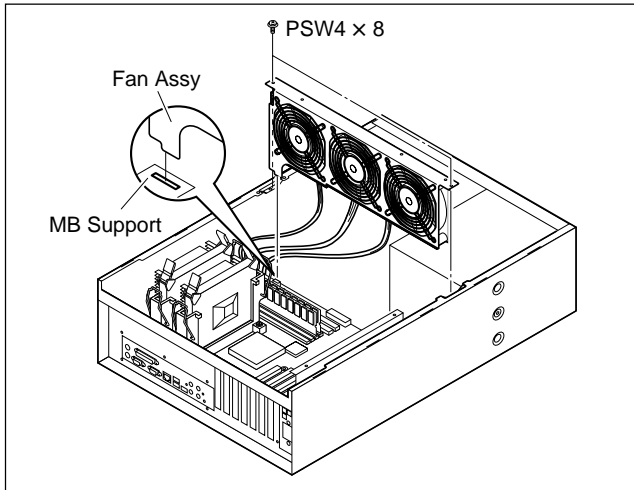


- (4) Remove the three screws (PSW3 × 6) and remove the CPU duct.

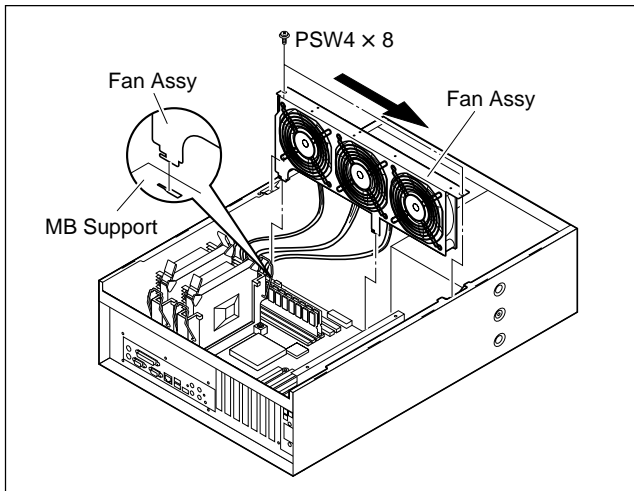


- (5) Remove the two screws (PSW4 × 8) and remove the fan assembly.

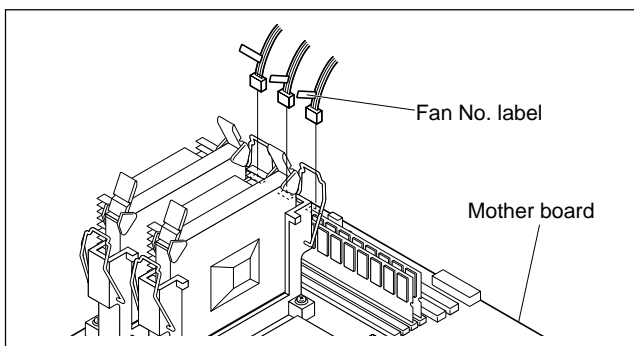
- ① DMW-S01NL Serial No. 30001 to 30015 (for J)
Serial No. 10001 to 10050 (for SY)



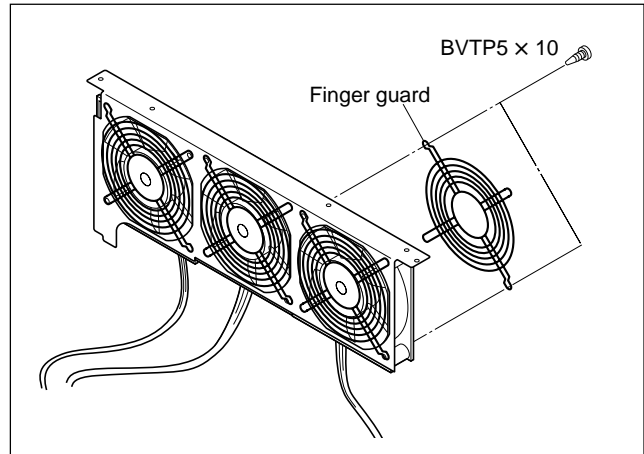
- ② DMW-S01NL Serial No. 30016 (for J) and higher
Serial No. 10051 (for SY) and higher
DMW-S02NL Serial No. 30001 (for J) and higher
Serial No. 10001 (for SY) and higher



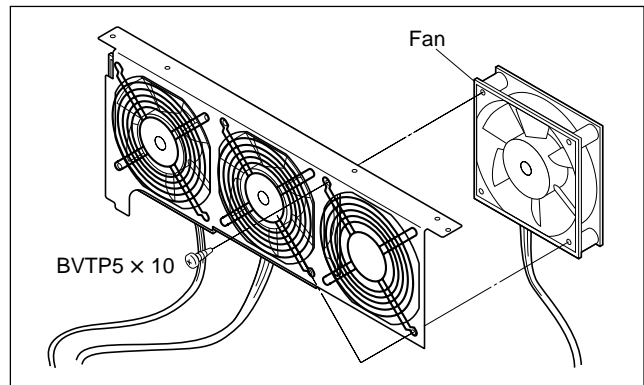
- (6) Disconnect the three cables from power supply connectors on the mother board.



- (7) Remove the two screws (BVTP5 × 10) of each three finger guards and remove them.



- (8) Remove the two screws (BVTP5 × 10) of each three fans and remove them.



Note

When removing the fan assembly, be careful not to pull the connecting cable as well as not to damage it.

Adjustment after replacement of the cabinet fan

After replacing the fan, perform the operation check using the BIOS setting menu (Refer to “Sec. 5-1”).

Note

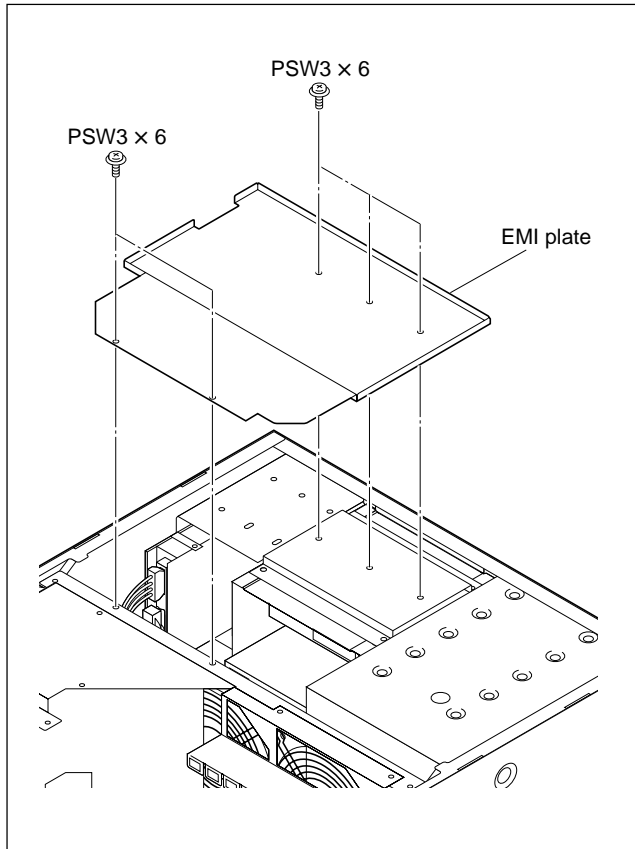
After replacing the fan, be sure to perform the operation check, then perform the reassembling of each parts.

Assembly after replacement of the fan

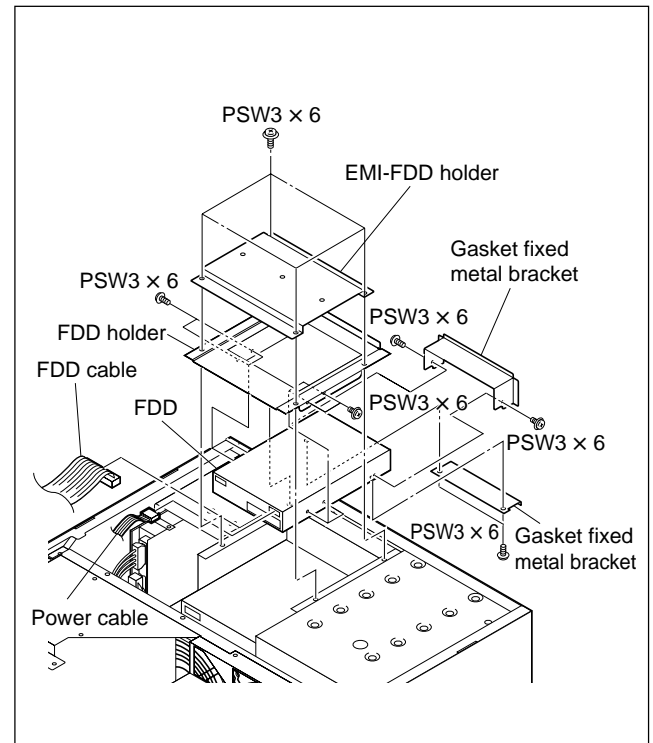
- After replacing the fan, attach the provided fan No. label to the cable.
Because servicing fan has the three labels, be sure to attach the same No. label as the replaced fan No. label.
- When installing the Fan assembly, make sure that attach it firmly with groove of the MB support (Bracket for Mother board installation).

c) FDD

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the five screws (PSW3 × 6) and remove the EMI plate.



- (3) Disconnect the two cables from the FDD.
- (4) Remove the four screws (PSW3 × 6) and remove the FDD with that fixed FDD holder.
- (5) Remove the four screws (PSW3 × 6) and remove the FDD.
- (6) Remove the four screws (PSW3 × 6) and remove the gasket fixed metal bracket from the FDD.

**Adjustment after replacement of the FDD**

After replacing the FDD, perform the operation check using the utility software “I-Ciser”. (Refer to “Sec. 5-2-1”.)

Note

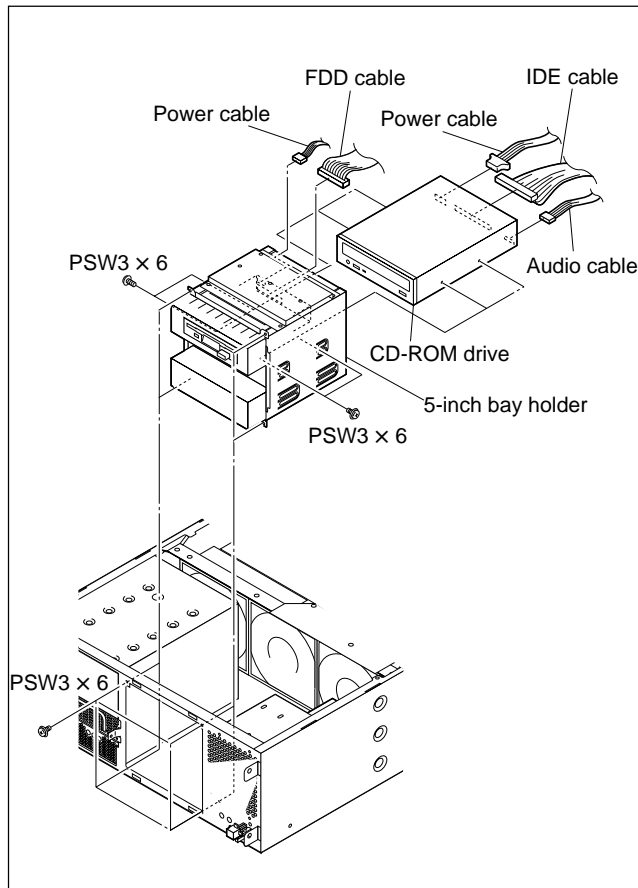
After replacing the FDD, be sure to perform the operation check, then confirm the reassembling of each parts.

Note on reassembling the FDD

Be sure tightening the screws while holding down the gasket that is situated on the panel surface portions of the FDD side of the unit.

d) CD-ROM Drive

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the EMI plate. (Refer to “Sec. 2-1-3, c) FDD step (2)”.)
- (3) Remove the front mask(PC). (Refer to “Sec. 2-1-3, 1, a) Power Module steps (2) to (5)”.)
- (4) Disconnect the five cables from the CD-ROM drive and FDD.
- (5) Remove the four screws (PSW3 × 6) and remove the 5-inch bay holder.
- (6) Remove the four screws (PSW3 × 6) and remove the CD-ROM drive.



Adjustment after replacement of the CD-ROM drive

After replacing the CD-ROM drive, perform the operation check using the utility software “I-Ciser”.

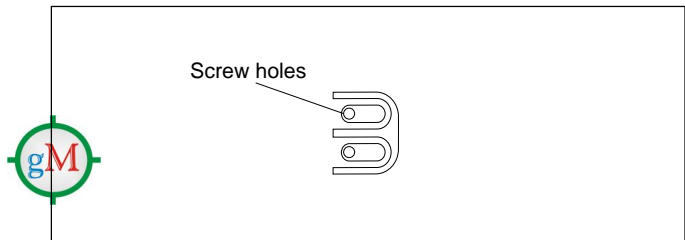
(Refer to “Sec. 5-2-1”.)

Notes

- If it is too hard to disconnect the cables, be sure to removing the drive unit at the first.
In this case, be careful not to pulling the cables forcibly as well as not to damage them.
- After replacing the CD-ROM drive, be sure to perform the operation check, then perform the reassembling of each parts.

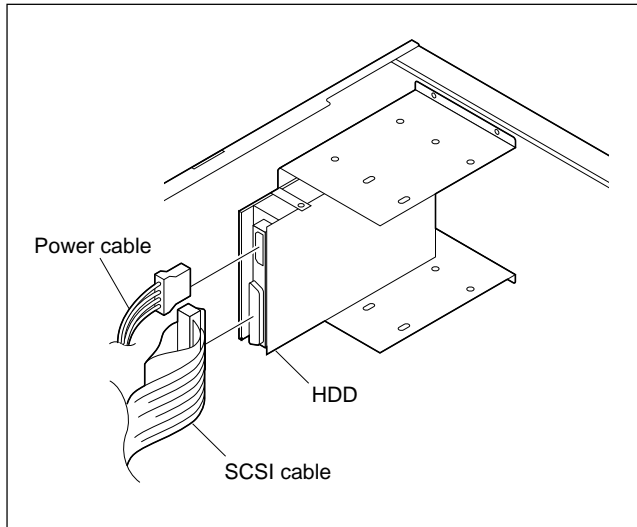
Note on reassemblage of the CD-ROM drive

When reassembling the CD-ROM drive, adjust its position to front side of the screw hole for the purpose of three surface positions that CD-ROM drive, FDD and blank panel makes evenly.

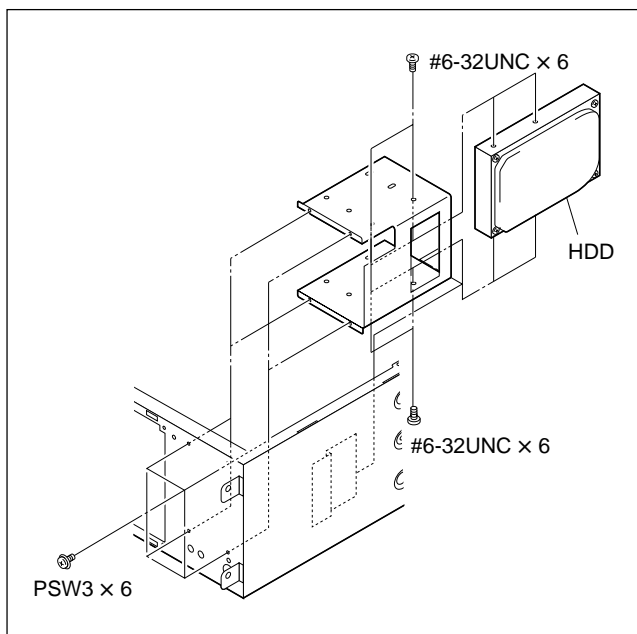


e) HDD

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the EMI plate.
(Refer to “Sec. 2-1-3, c) FDD step (2)”.)
- (3) Remove the front mask(PC). (Refer to “Sec. 2-1-3, 1, a) Power Module steps (2) to (5)”.)
- (4) Disconnect the two cables from the HDD.



- (5) Remove the four screws (PSW3 × 6) and remove the HDD assembly by sliding it toward backward.
- (6) Remove the four screws (#6-32UNC × 6) and remove the HDD.

**Notes**

- HDD is extreme weak by shock hazard, take care to handle the HDD to prevent shock.
- Because operating system is only installed with the HDD, after replacement of the HDD, it is required to reinstalling of the driver software and utility software.

OS pre-installed HDD part No.

HDD for Japanese OS : 9-885-010-95

HDD for English OS : 9-885-010-96

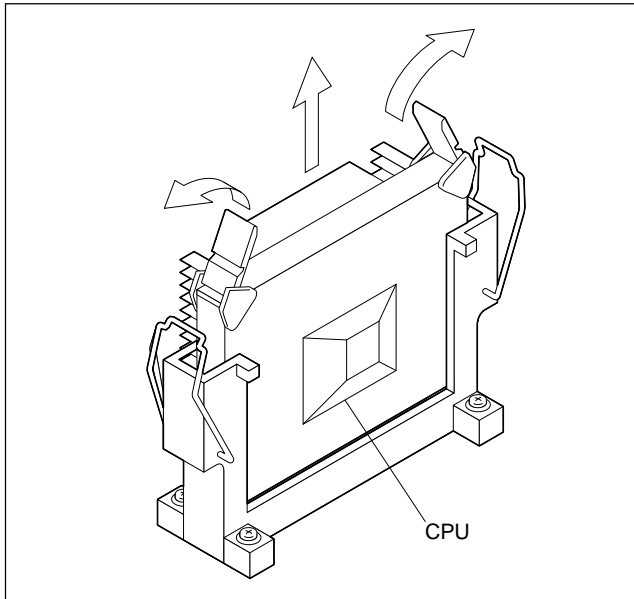
- After replacing the HDD, be sure to perform the operation check, then perform the reassembling of each parts.

Adjustment after replacement of the HDD

- Reinstalls the driver software and utility software and perform the various setting after replacing the HDD. (Refer to “Sec.4”.)
- After replacing the HDD, perform the operation check using the utility software “I-Ciser”. (Refer to “Sec. 5-2-1”.)

f) CPU

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct and CPU duct.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan steps (2) and (4)”.)
- (3) Remove the hook by pulling up the both side levers of the CPU and remove it.



Notes

- When replacing the CPU, do not touch the terminal portions of CPU and also perform the remedy for static electricity using ESD wrist band etc., to prevent not to damage the CPU.
- Confirm the CPU get cold, make sure to perform the replacement working. (Wait for the several minutes after turned off the power of the unit.)
- After replacing the CPU, be sure to perform the operation check, then perform the reassembling of each parts.

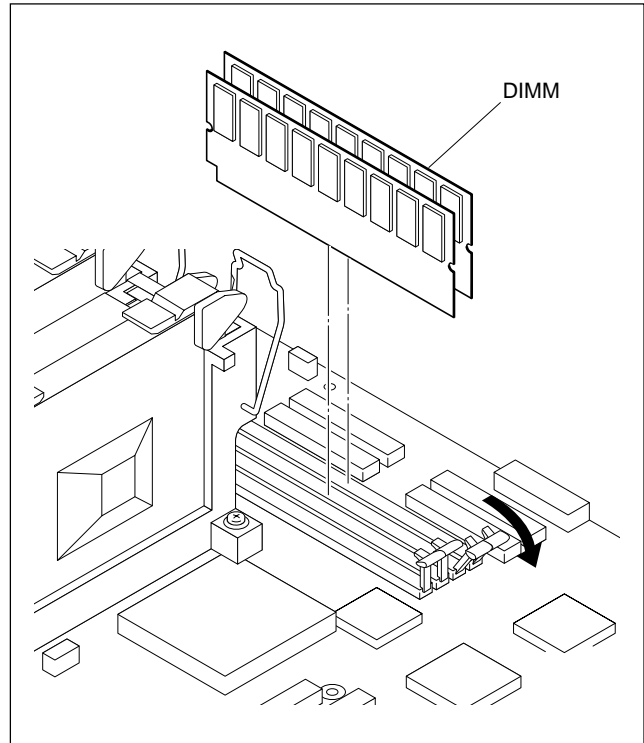
Adjustment after replacement of the CPU

After replacing the CPU, confirm the CPU type and clock speed using the BIOS setting menu. And also, make sure to erasing the error information of the CPU.

(Refer to “Sec. 5-1”.)

g) DIMM

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct and CPU duct.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan steps (2) and (4)”.)
- (3) Remove the DIMM by pulling down the levers of the DIMM socket.



Notes

- When replacing the DIMM, do not touch the terminal portions of the DIMM and also perform the remedy for static electricity using ESD wrist band etc., to prevent not to damage the DIMM.
- After replacing the DIMM, be sure to perform the operation check, then perform the reassembling of each parts.


Adjustment after replacement of the DIMM

- After replacing the DIMM, perform the status check using the BIOS setting menu. And also, make sure to erasing the error information of the DIMM.
(Refer to “Sec. 5-1”.)
- After replacing the DIMM, perform the operation check using the utility software “I-Ciser”.
(Refer to “Sec. 5-2-1”.)

h) Lithium Battery

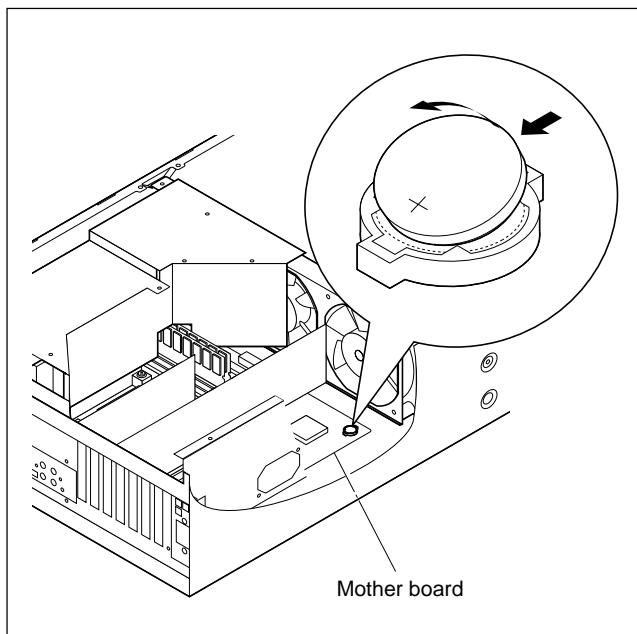
Lithium battery used in this unit which placed on the mother board.

When replace the lithium battery, use only with specified part as follows.

Mother board :  Lithium battery CR2032

When error “0250 System battery is dead-Replace and run SETUP” appears during POST running, make sure replacing the lithium battery immediately.

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct and CPU duct.
(Refer to “Sec. 2-1-3, b) Cabinet fan steps (2) and (4)”.)
- (3) Insert the tapering driver to gap of the battery holder as shown in the figure by arrow direction and remove the battery.



Note

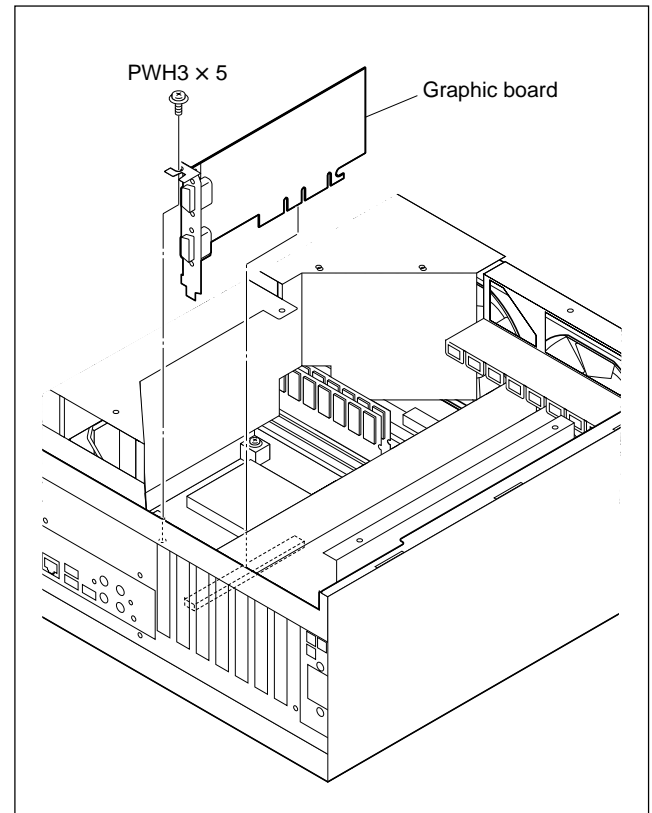
After replacement of the battery, BIOS setting contents becomes indefinite status, perform the BIOS setting.
(Refer to “Sec. 5-1”.)

Adjustment after replacing the battery

After replacement the battery, perform the BIOS setting.
(Refer to “Sec. 5-1”.)

i) Graphic Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (2)”.)
- (3) Remove the one screw (PWH3 × 5) and remove the graphic board.

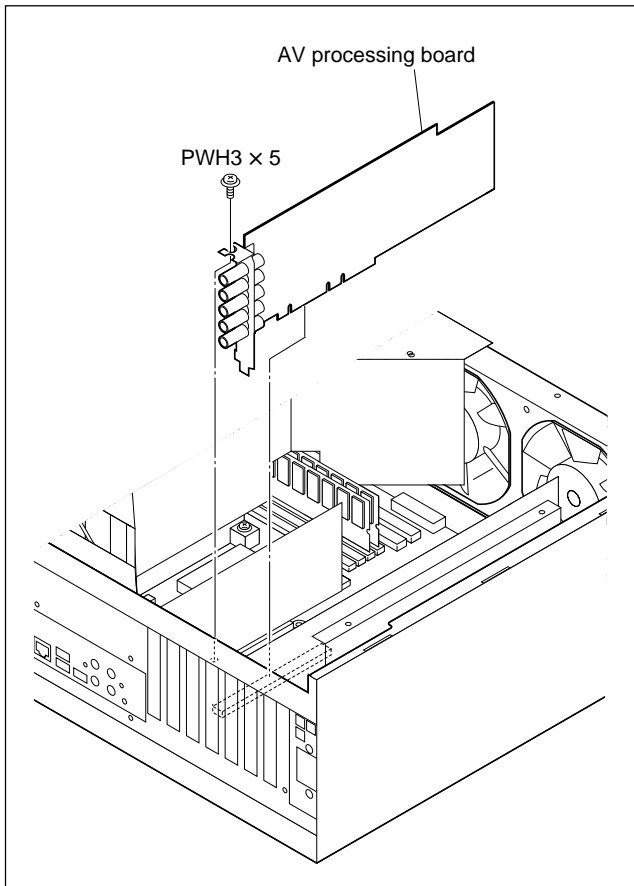


Note

When replacing the graphic board, do not touch the terminal portions of the board and also perform the remedy for static electricity using ESD wrist band etc., to prevent not to damage it.

j) AV Processing Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (2)”.)
- (3) Remove the card stopper.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (3)”.)
- (4) Remove the one screw (PWH3 × 5) and remove the AV processing board.

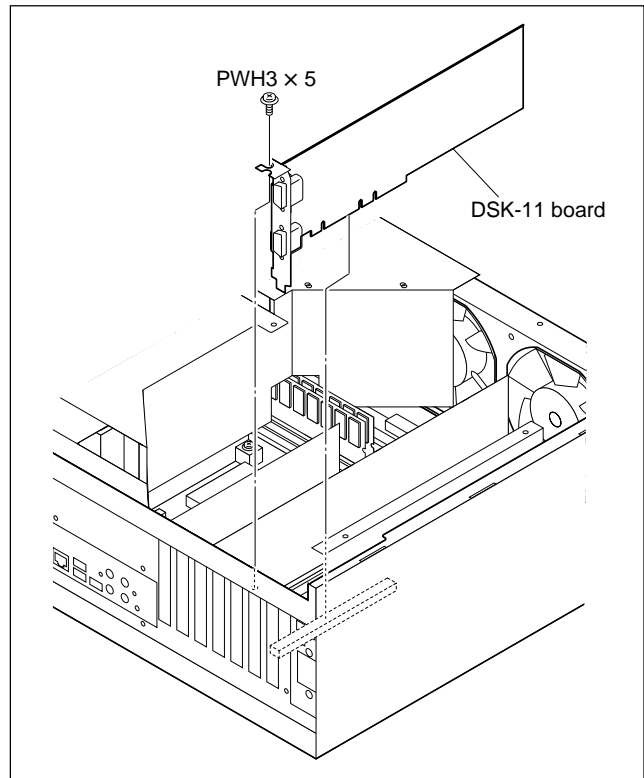


Notes

- When replacing the AV processing board, do not touch the terminal portions of the board and also perform the remedy for static electricity using ESD wristband etc., to prevent not to damage it.
- When reinstalling the AV processing board, be sure to put it back to its place.

k) DSK-11 Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (2)”.)
- (3) Remove the card stopper.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (3)”.)
- (4) Remove the one screw (PWH3 × 5) and remove the DSK-11 board.



Notes

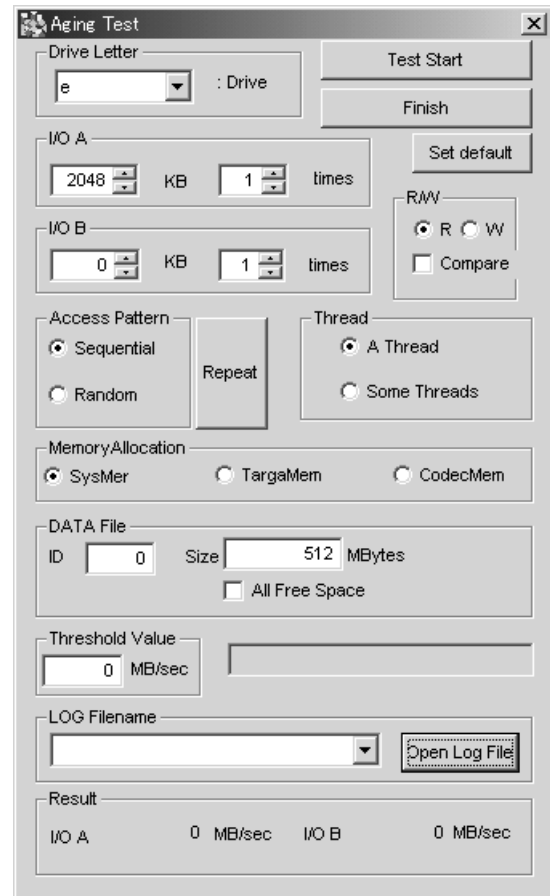
- When replacing the DSK-11 board, do not touch the terminal portions of the board and also perform the remedy for static electricity using ESD wrist band etc., to prevent not to damage it.
- When reinstalling the DSK-11 board, be sure to put it back to its place.
- After replacing the DSK-11 board, be sure to perform the operation check, then perform the reassembling of each parts.

Adjustment after replacement of the DSK-11 board

- (1) After replacing the DSK-11 board, confirm that all the S301 and S302 switches are OFF except S301-1 is ON.
- (2) Confirm and test the following items using the disk utility. (Refer to “Sec. 5-6-3”.)

If the disk utility does not set up normally, it considers that poor contact may occurs. Therefore, insert the DSK-11 board in the PCI slot again.

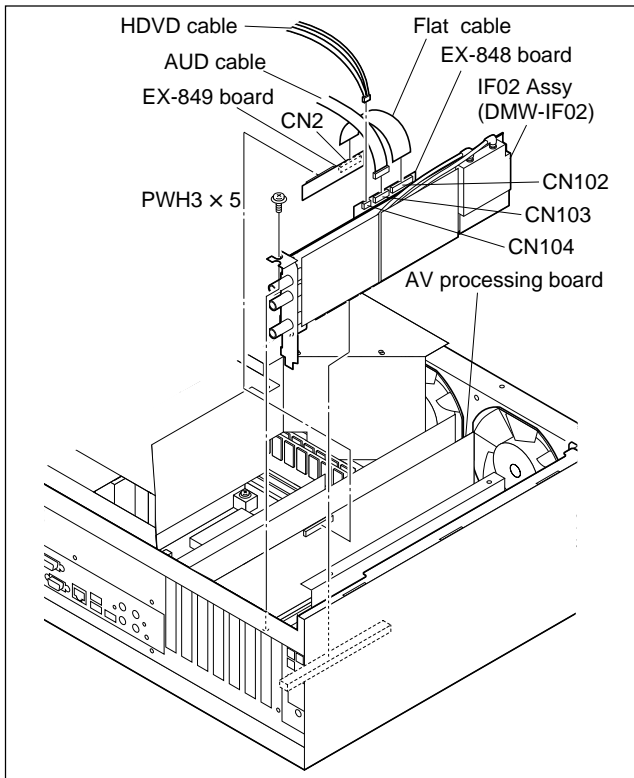
- i) Confirmation of disk configuration.
(Refer to “Sec. 5-6-4, 1”.)
 - Confirm the disk configuration is defined before replacement of the board.
 - When the disk configuration is not displayed correctly, confirm whether FC cable is connected properly and the power of the disk unit is turned on.
- ii) Confirmation of board information.
(Refer to “Sec. 5-6-5, 3,(1) step a”).
 - Perform the confirmation of each ID and each revision.
 - When the revisions of the firmware, RTOS and driver are not expected, reinstall the disk utility.
(Refer to “Sec. 5-6-5, 3, (3) Install program”).
As for revisions of each software, refer to Readme.txt file that are recorded to CD-ROM for installation.
- iii) Confirmation of FC port setting.
(Refer to “Sec. 5-6-5, 3, (1) step b”).
 - Confirm the number of the port and node names matches one indicated in the board data supplied from the manufacturer.
 - Confirm the port and node names are correct indicated in the board data supplied from the manufacturer.
- iv) Comparison test. (Refer to “Sec. 5-6-7, 1”.)
 - Run the following comparison test, confirm the no error is found.



- ① Select a specified drive for the disk unit.
- ② Set “2048” of the I/O A.
- ③ Check “Compare” of the R/W.
- ④ Select “SysMer” of the “Memory Allocation”.
- ⑤ Input a log file name.
- ⑥ Click “Test Start” button. After the test ends, confirm the message “Test is Completed !” is displayed on the window.
- ⑦ Press “Open Log File” button to open the inputting log file.
- ⑧ Confirm the “CompErr = 0” of result-A in log contents.

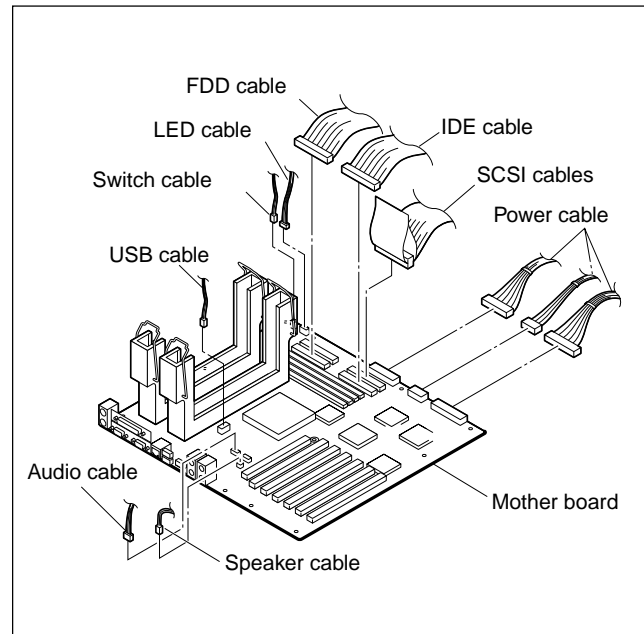
l) HDTV Interface Board, IF02 Assy (DMW-IF02)

- (1) Remove the AV/IO block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (2)”.)
- (3) Remove the card stopper.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan step (3)”.)
- (4) Remove the HDVD cable and AUD cable from EX-848 board.
- (5) Remove the EX-849 board from AV processing board.
- (6) Remove the one screw (PWH3 × 5) and remove the IF02 Assy (DMW-IF02).
- (7) Remove the three cables from EX-848 board of which is attached to IF02 Assy (DMW-IF02).



m) Mother Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Remove the PCI duct, CPU duct and fan assembly.
(Refer to “Sec. 2-1-3, 1, b) Cabinet Fan steps (2) to (6)”.)
- (3) Remove the CPU, DIMM, graphic board, AV processing board and DSK-11 board.
(Refer to “Sec. 2-1-3, 1, f) CPU, g) DIMM, i) Graphic Board, j) AV Processing Board and k) DSK-11 Board”.)
- (4) Disconnect eleven cables from the mother board.



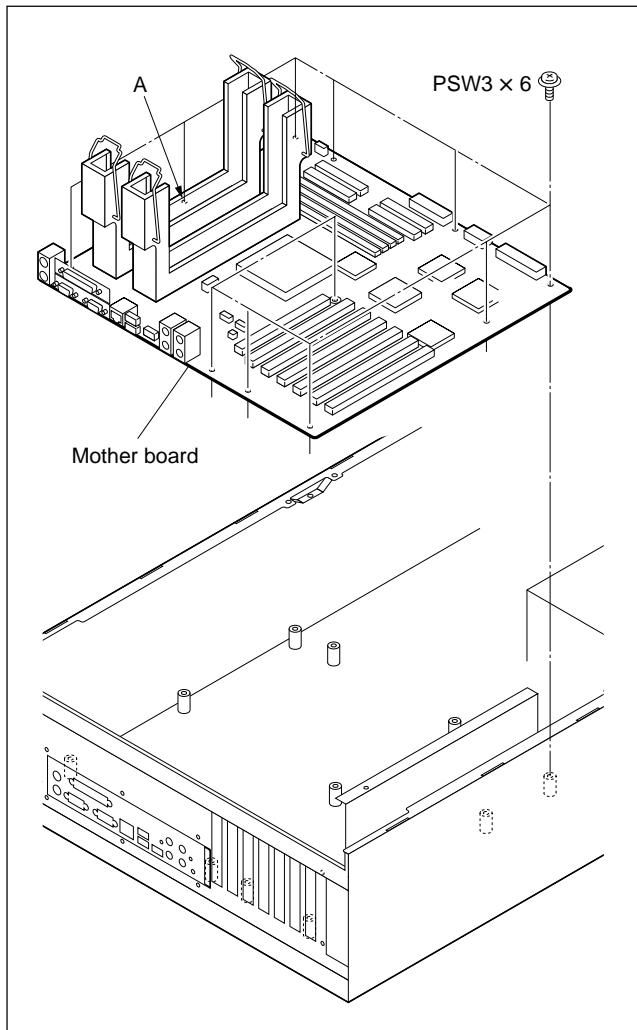
Notes

- When replacing the IF02 Assy (DMW-IF02), do not touch the terminal portions of the board and also perform the remedy for static electricity using ESD wrist band etc., to prevent not to damage it.
- When reinstalling the IF02 Assy (DMW-IF02), be sure to put it back to its place.
- After replacing the IF02 Assy (DMW-IF02), be sure to perform the operation check, then perform the reassembling of each parts.

Adjustment after replacement of the IF02 Assy (DMW-IF02)

Confirm the version No. using the utility software of IF02 Assy (DMW-IF02), and confirm that the no error is found by self diagnosis. (Refer to “Sec. 5-7-2, 5-7-3”.)

- (5) Remove the eleven screws (PSW3 × 6) and remove the mother board.



Notes

- When replacing the mother board, do not touch the terminal portion of the board and also perform the remedy for static electricity using ESD wrist band etc., to prevent not to damage it.
- Because one screw of A portion shown as above figure is hidden under the CPU, be sure to remove the CPU before remove the mother board.
- After replacing the mother board, be sure to operation check, then reassembling of each parts.

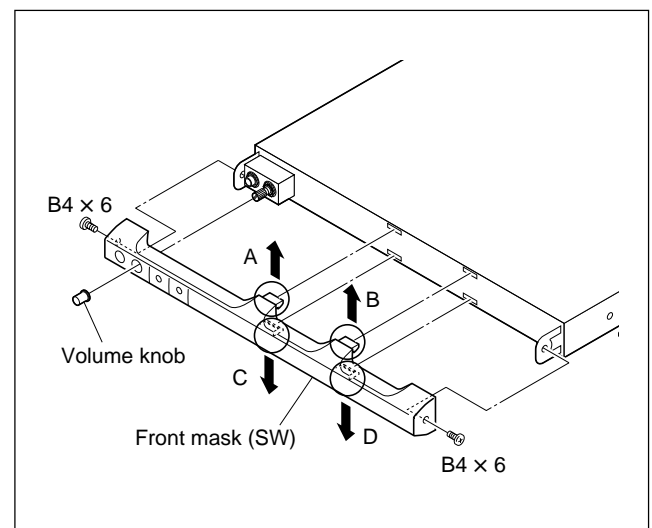
Adjustment after replacement of the mother board

- Confirm the jumper-pin setting is corresponded with factory setting. (Refer to “Sec. 1-6-1”.)
- After replacing the mother board, perform the BIOS setting. (Refer to “Sec. 5-1”.)

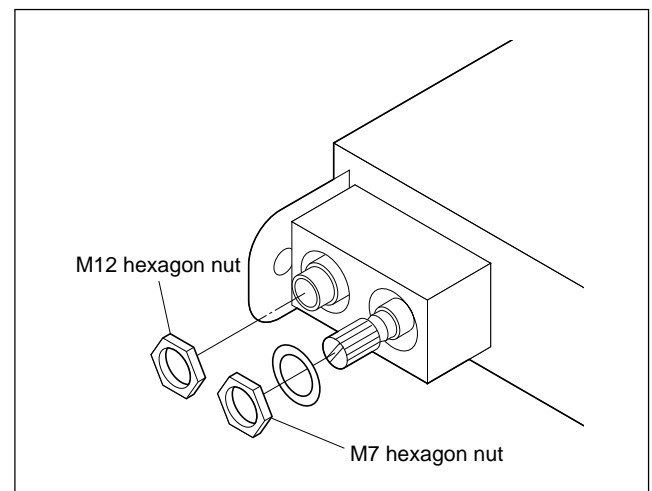
2. AV I/O Block

a) AH-65 Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Pull out the volume knob.
- (3) Remove the two screws (+B4 × 6).
- (4) Release the two claws to pull the front mask in front side while lifting up the following A and B portions on the figure. Or, release the two claws using a flat blade screwdriver.
- (5) Release the two claws to pull the front mask in front side while pulling down the following C and D portions on the figure.
- (6) After confirming that the claws was released, remove the front mask (SW).

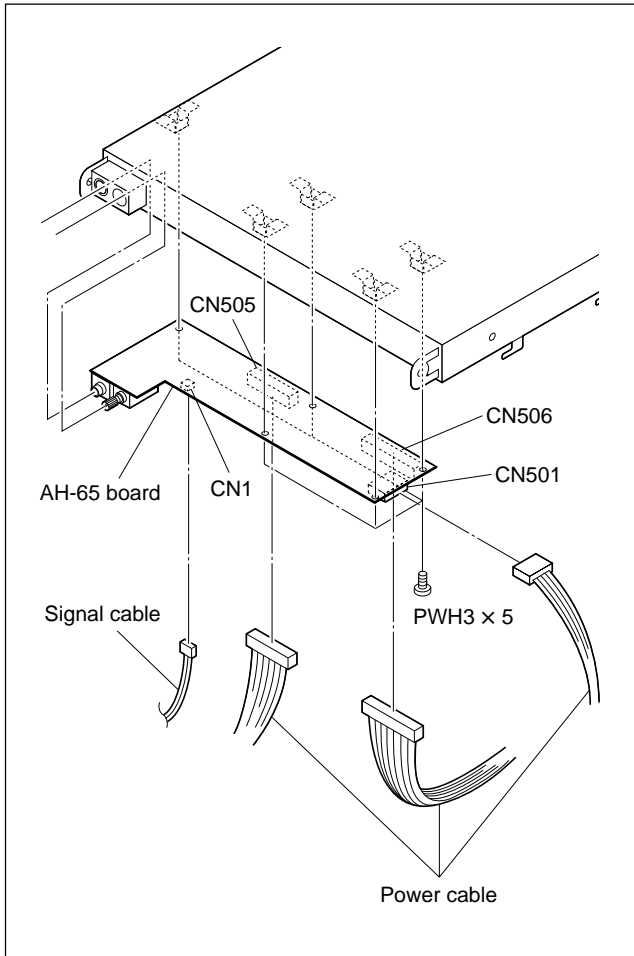


- (7) Remove the two hexagon nuts (M12, M7).



- Service tool required
Box driver (For M12) ... Part No. : 7-700-751-05
Box driver (For M7) ... Part No. : 7-640-005-30

- (8) Disconnect the three power supply cables and one signal cable.
- (9) Remove the five screws (PWH3 × 5) and remove the AH-65 board.



Note

After replacing the AH-65 board, be sure to perform the operation check, then reassembling of each parts.

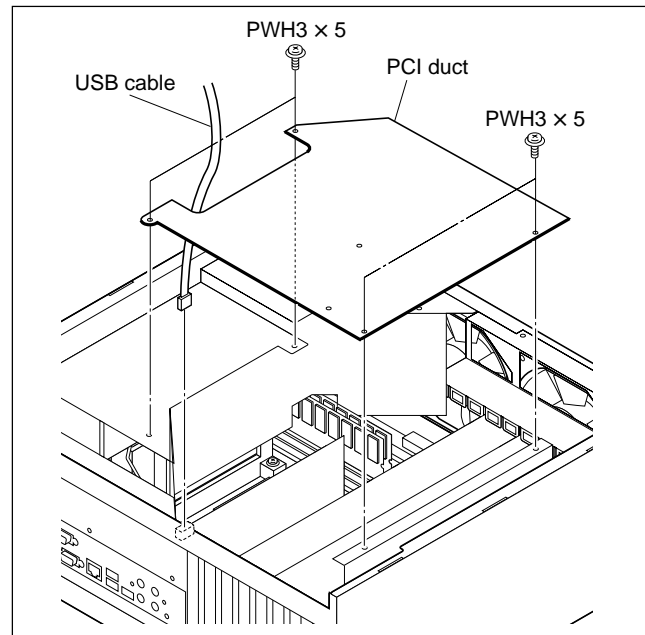
Adjustment after replacement of the AH-65 board

After replacing the AH-65 board, confirm the output voltage of the DC-DC converter is correct.

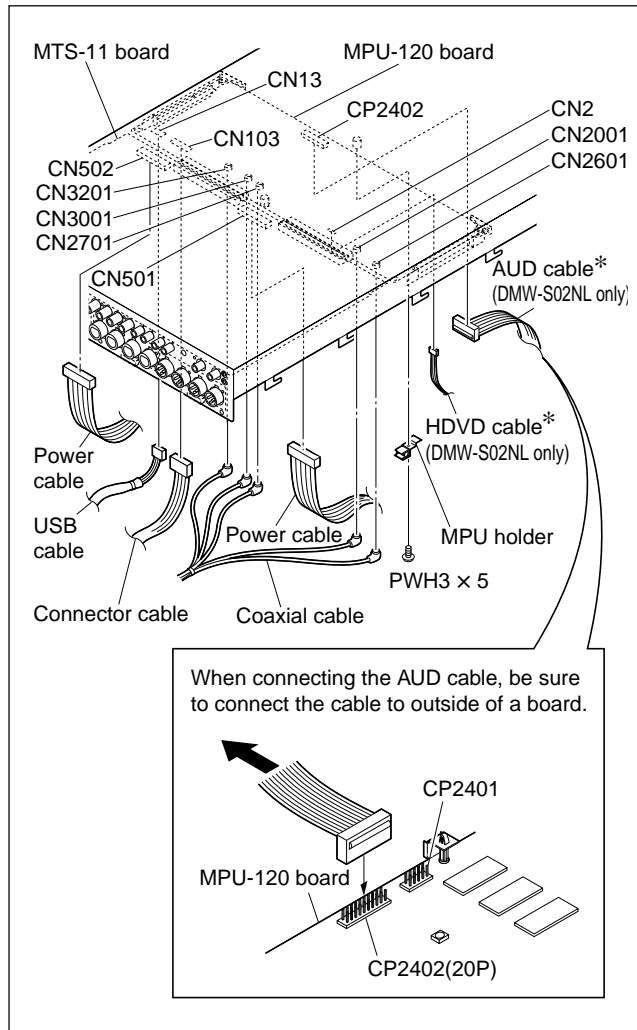
(Refer to “Sec. 7-2”).

b) MPU-120 Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”).
- (2) Remove the four screws (PWH3 × 5) and remove the PCI duct.
- (3) Disconnect the USB cable.

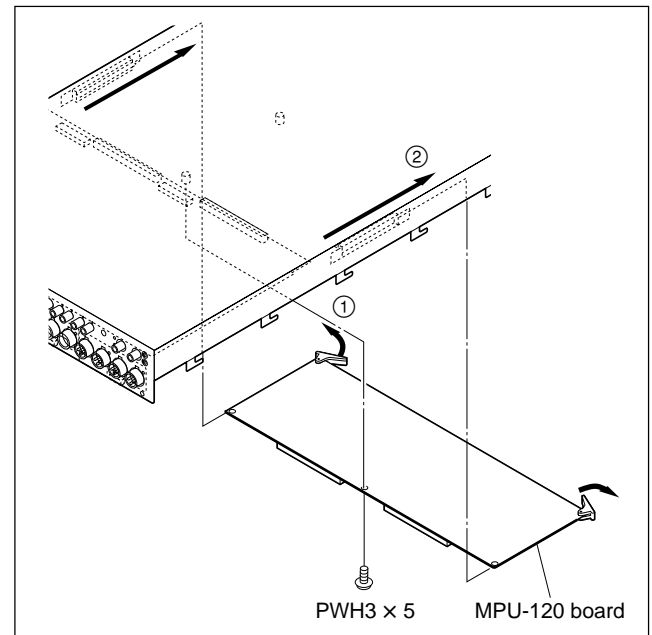


- (4) Disconnect the two power supply cables from the MTS-11 board.
- (5) Disconnect the five coaxial cables, one connector cable and one USB cable.
In case of DMW-S02NL, disconnect the AUD cable and HDVD cable to add to above the cables.
- (6) Remove the one screw (PWH3 \times 5) and remove the MPU holder.



* When DMW-IF02 is installed in DMW-S01NL.

- (7) Remove the one screw (PWH3 \times 5), open the two levers on both sides of the board shown in arrow direction (①) on the figure and pull out the MPU-120 board from the guide rail shown in arrow direction (②) on the figure.



Notes

- When reconnecting the coaxial cables, be sure to inset strongly.
- After replacing the MPU-120 board, be sure to perform the operation check, then perform the reassembling of each parts.

Coaxial cable connections

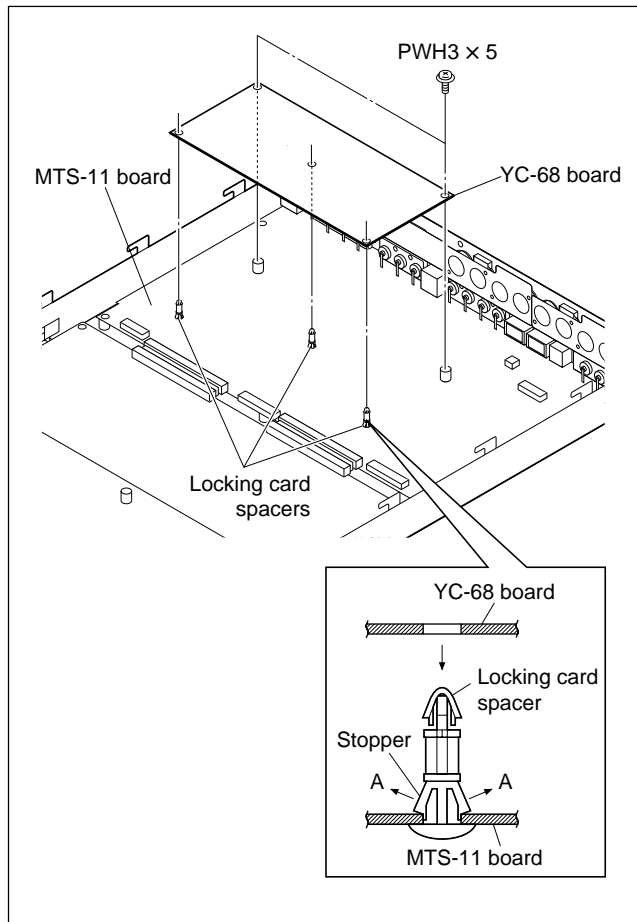
Panel indication	MPU-120 board	Color
SDI IN	CN2001, SDI IN	Black
SDI OUT	CN3001, PGM OUT	Red
SYSTEM I/F IN	CN2701, FRM PC	Orange
SYSTEM I/F OUT	CN2601, TO PC	Yellow
MON OUT	CN3201, MON OUT 1	Green

Adjustment after replacement of the MPU-120 board

After replacing the MPU-120 board, be sure to downloading the firmware that version is conformed to the application software, to the Flash memory (IC2). Refer to Sec. 5-3-3 for confirmation of the existing version No. and version up procedure of the firmware. Also, confirm the configuration data that is downloaded to the PLD IC2301, is conformed to the application software version No. Refer to Sec. 7-8 for version up procedure of this data. It also should be performed the every electrical alignment items of this board by referring to Sec. 7, Electrical Alignment.

c) YC-68 Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”).
- (2) Remove the two screws (PWH3 × 5).
- (3) Remove the three locking card spacers and remove the YC-68 board.

**Notes**

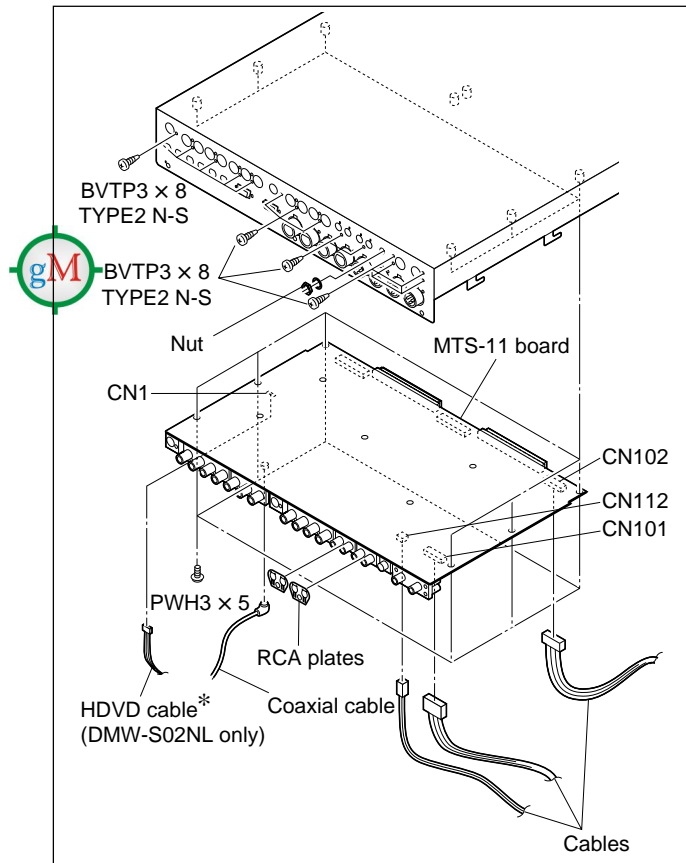
- After replacing the YC-68 board, be sure to perform the operation check and adjustment, then perform the reassembling of each parts.
- When reinstalling the YC-68 board, spread the stopper of the locking card spacers in the arrow direction A, because it fear that the stopper has come off from the hole of MTS-11 board.

Adjustment after replacement of the YC-68 board

After replacing the YC-68 board, make sure to perform the every electrical alignment items of this board by referring to Sec. 7, Electrical Alignment.

d) MTS-11 Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”).
- (2) Remove the MPU-120 board.
(Refer to “Sec. 2-1-3, 2, step b”).)
- (3) Remove the YC-68 board.
(Refer to “Sec. 2-1-3, 2, step c”).)
- (4) Disconnect the three cables and one coaxial cable.
In case of DMW-S02NL (or DMW-S01NL with DMW-IF02), disconnect the HDVD cable to add to above the cables.
- (5) Remove the fourteen screws (BVTP3 × 8) of the rear panel, remove the one nut and one washer of the “AUX2”.
• Service tool required
Jack nut driver ... Part No. : 7-700-742-02
- (6) Remove the eight screws (PWH3 × 5) and remove the MTS-11 board.
- (7) Remove the RCA plate.



* When DMW-IF02 is installed in DMW-S01NL.

Note

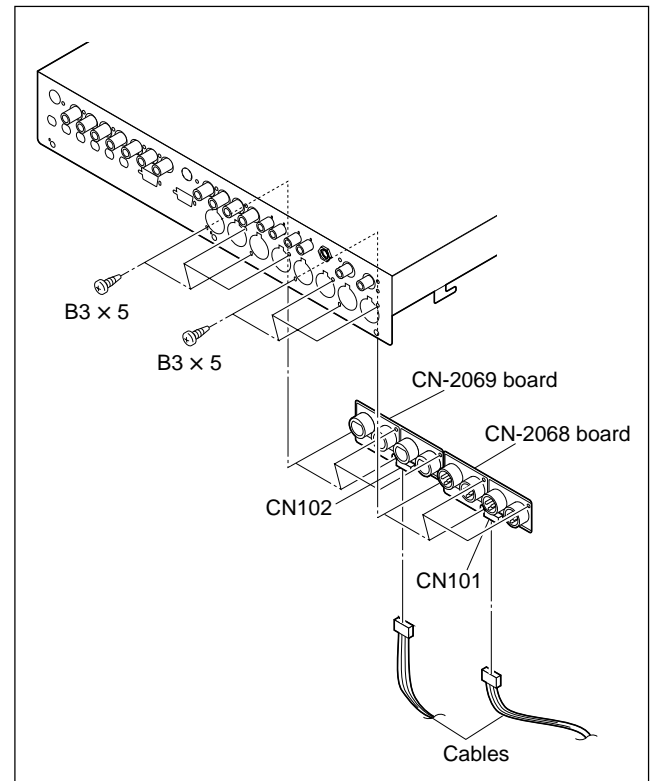
After replacing the MTS-11 board, be sure to perform the operation check and adjustment, then perform the reassembling of each parts.

Adjustment after replacement of the MTS-11 board

After replacing the MTS-11 board, confirm the configuration data that is downloaded to the PLD IC6001, is conformed to the application software version No. Refer to Sec. 7-8 for version up procedure of this data. It also should be performed the every electrical alignment items of this board by referring to Section 7, Electrical Alignment.

e) CN-2068 Board and CN-2069 Board

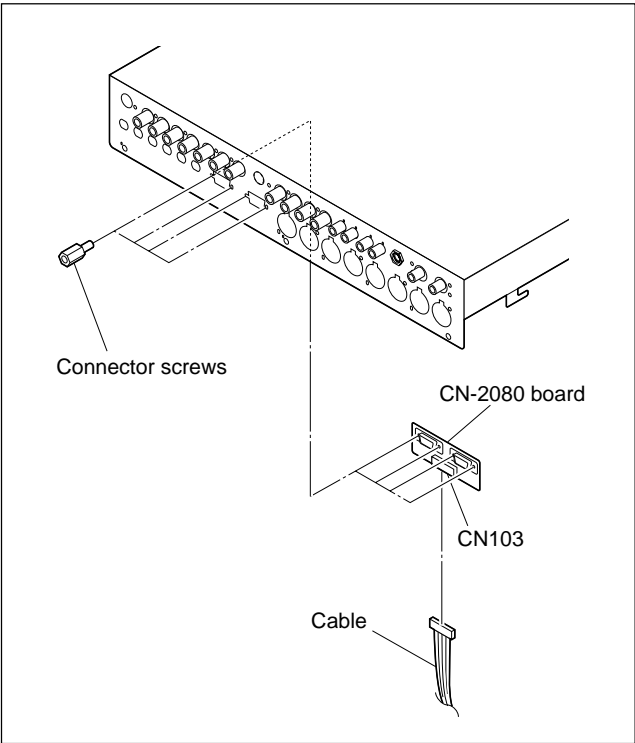
- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Disconnect the two cables.
- (3) Remove the four screws (B3 × 5), remove the CN-2068 and CN-2069 boards.

**Note**

After replacing the CN-2068 and CN-2069 boards, be sure to perform the operation check and adjustment, then perform the reassembling of each parts.

f) CN-2080 Board

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Disconnect the one cable.
- (3) Remove the four connector screws and remove the CN-2080 board.
 - Service tool required
 - Box driver (Width across flat : 5 mm)
 - … Part No. : 7-721-052-05

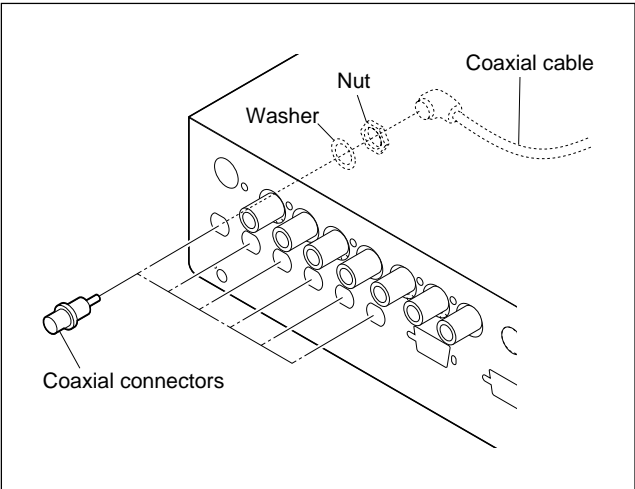


Notes

- After replacing the CN-2080 board, perform the operation check and adjustment, and then perform the reassembling of each parts.
- When wiring the cable, fasten it with wire holder on the CN-2080 board to have no loosing.

g) Coaxial cable

- (1) Remove the AV I/O block. (Refer to “Sec. 2-1-2”.)
- (2) Disconnect the one coaxial cable.
- (3) Remove the one nut and one washer, remove the coaxial connector.



Note

When reconnecting the coaxial cable, be sure to insert strongly.

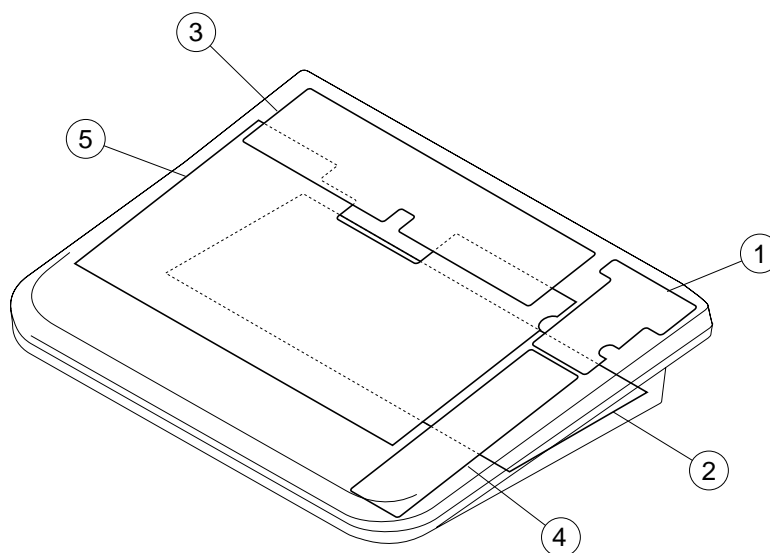
Coaxial cable connections

Panel indication	MPU-120 board	Color
SDI IN	CN2001, SDI IN	Black
SDI OUT	CN3001, PGM OUT	Red
SYSTEM I/F IN	CN2701, FROM PC	Orange
SYSTEM I/F OUT	CN2601, TO PC	Yellow
MON OUT	CN3201, MON OUT 1	Green

Panel indication	MTS-11 board	Color
REF OUT2	CN5401, BB_OUT2	Black

2-2. Audio Control Panel

2-2-1. Location of Boards



- ① CN-2002 board
- ② CPU-315 board
- ③ KY-471 board
- ④ KY-472 board
- ⑤ SV-220 board

2-2-2. Removing of Cabinet

1. Fader Panel assembly

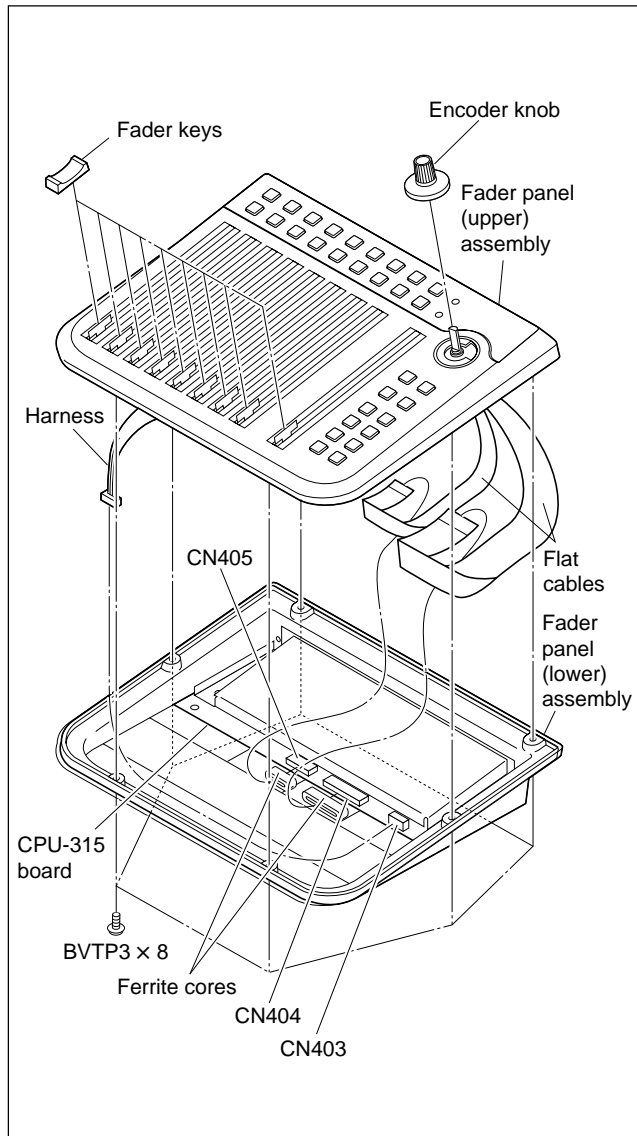
- (1) Remove nine fader keys and an encoder knob.
- (2) Remove six screws (BVTP3 \times 8) and remove the fader panel (upper) assembly from the fader panel (lower).

Note

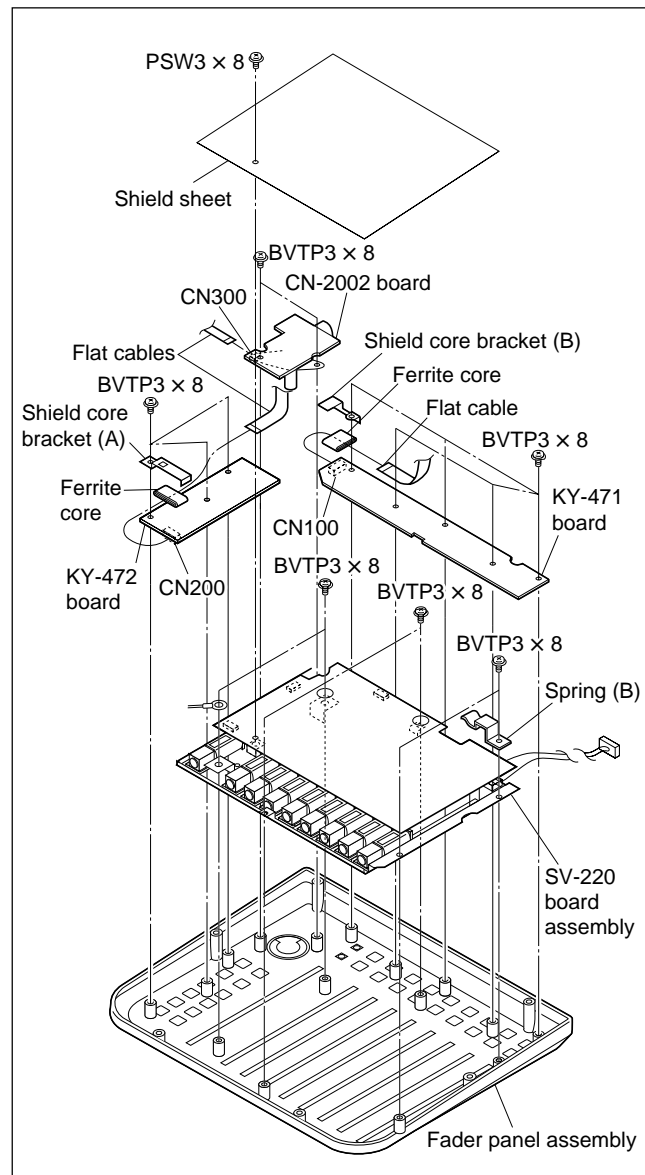
When remove the fader panel (upper) assembly, be careful not stretch it because the cables are connected to the boards inside fader panel (lower).

- (3) Disconnect one harness and two flat cables from the connectors (CN403, CN404, CN405) on the CPU-315 board.

Draw out the flat cables from the ferrite cores.



- (4) Remove the screw (PSW3 \times 8) and remove the shield sheet.
- (5) Remove five screws (BVTP3 \times 8) and remove the KY-471 board. Disconnect the flat cable from the connector (CN100) on the KY-471 board.
- (6) Remove three screws (BVTP3 \times 8) and remove the KY-472 board. Disconnect the flat cable from the connector (CN200) on the KY-472 board.
- (7) Remove two screws (BVTP3 \times 8) and remove the CN-2002 board. Disconnect the flat cable from the connector (CN300) on the CN-2002 board.
- (8) Remove six screws (BVTP3 \times 8) and remove the spring (B) and SV-220 board assembly.

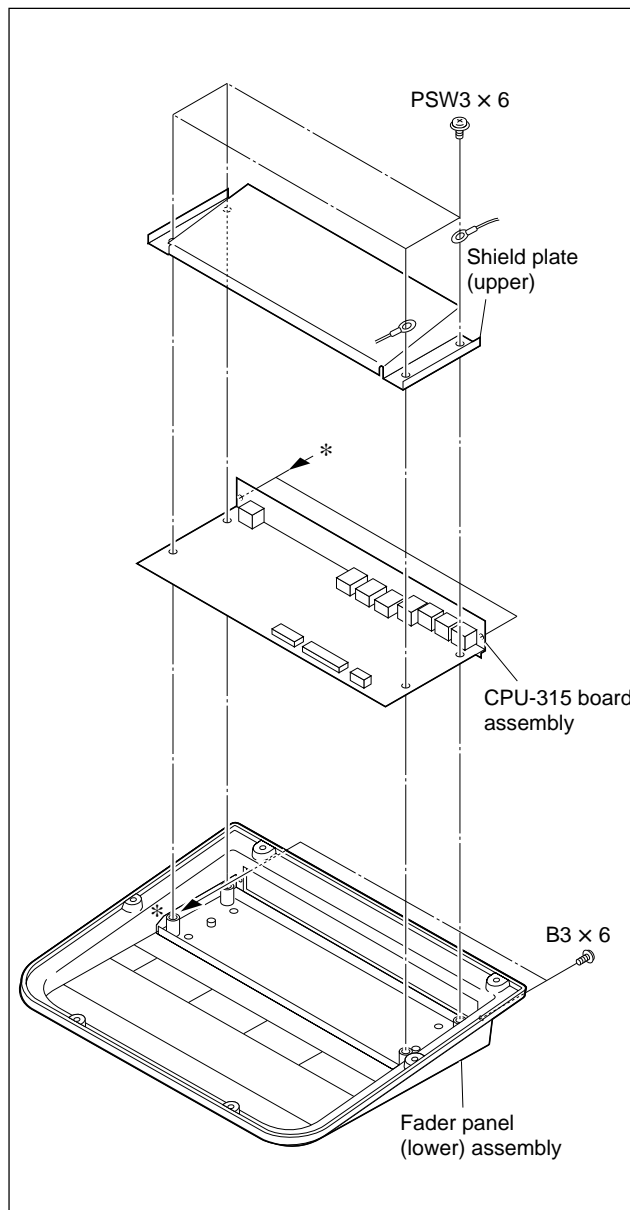


Note

When disconnecting / re-connecting the flat cable, be careful not damage it.

2. Fader Panel (Lower) Assembly

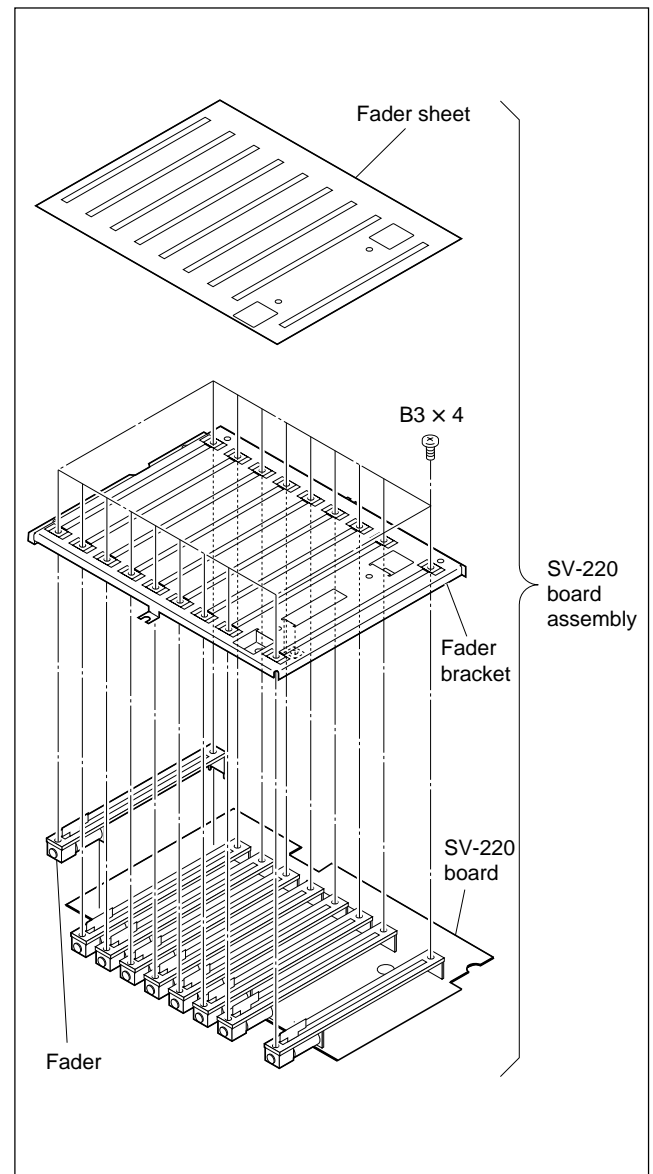
- (1) Remove the fader panel (upper) assembly, then remove one harness and two flat cables from the CPU-315 board. (Refer to steps (1) through (3) in section 2-2-2-1.)
- (2) Remove four screws (PSW3 × 6) and remove the shield plate (upper).
- (3) Remove two screws (B3 × 6) and remove the CPU-315 board assembly from the fader panel (lower) assembly.



2-2-3. Replacement of Main Parts

1. Replacement of Fader

- (1) Remove the SV-220 board assembly. (Refer to steps (1) through (5) in section 2-2-2-1.)
- (2) Peel the fader sheet from the fader bracket to remove it.
- (3) Remove eighteen screws (B3 × 4), then remove the fader bracket.
- (4) Unsolder eight soldered joints, remove the replaced fader from the SV-220 board.



- (5) Install the fader in the reverse order of steps (1) through (4).

- Setting and adjustment are no necessity after replacement of fader.

2. Replacement of Fuse

Note

Total two fuses are mounted on the CPU-315 board.
If a trouble occurs on the unit by flowing the over-current,
any fuse will blow.
The fuses should be replaced with following parts after
removing foreign matter.

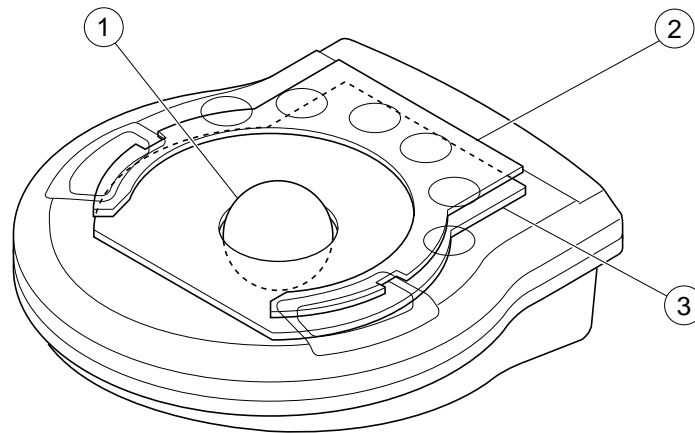
Ref. No.	Board address	Part No.
F101	E-3 (A side)	△ 1-576-270-21

3. Adjustment after replacement of the CPU- 315 board

After replacing the CPU-315 board, make sure to perform the firmware version up. (However, when the file version No. to version up is equal to existing panel version No., there is no necessity to version up of the firmware.) Refer to Sec. 5-4-3 Step 2, Program download for version up procedure and version confirmation of this firmware.

2-3. Trackball Control Panel

2-3-1. Location of Main Parts

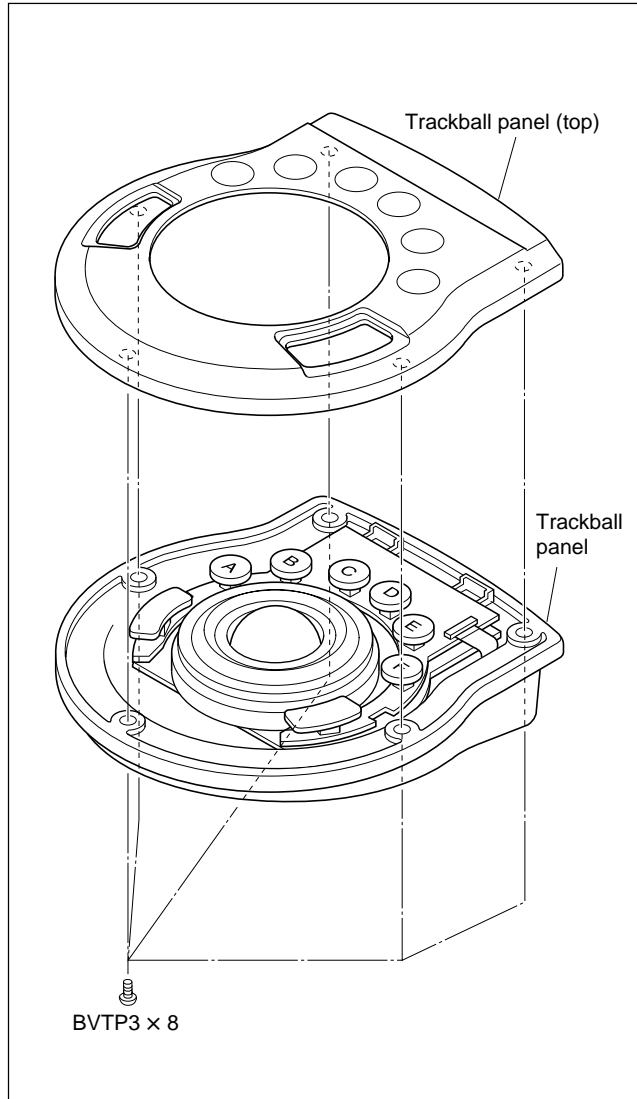


- ① Trackball
- ② KY-473 board
- ③ CPU-316 board

2-3-2. Removing of Cabinet

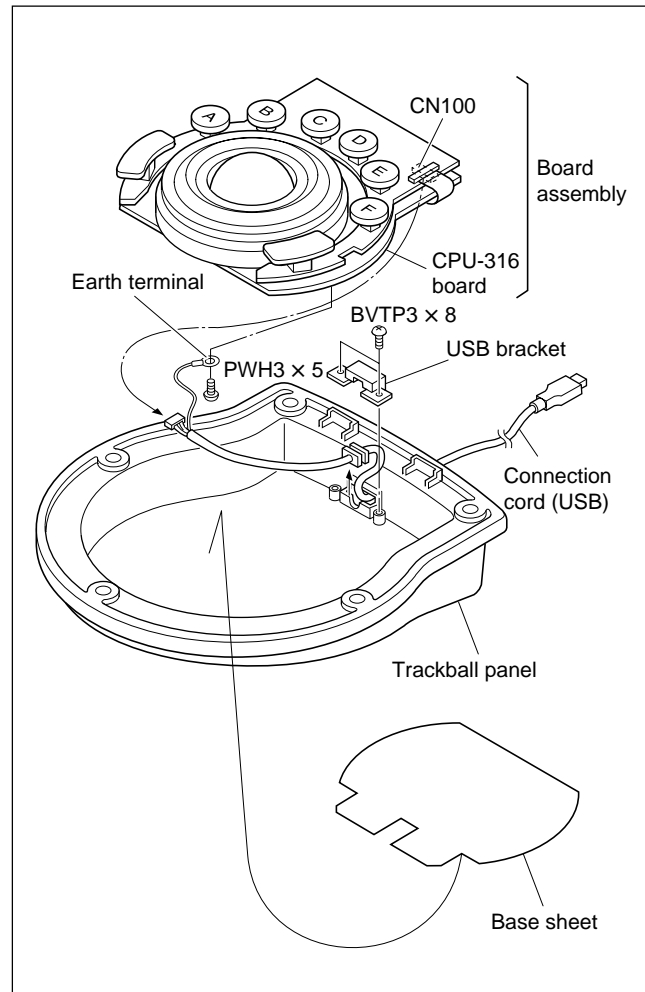
1. Trackball Panel (Top)

Remove five screws (BVTP3 × 8) and remove the track ball panel (top).



2. Trackball Panel

- (1) Remove five screws (BVTP3 × 8) and remove the trackball panel (Top). (Refer to section 2-3-2-1.)
- (2) Remove the board assembly from the trackball panel.
- (3) Disconnect the connector of connection cord (USB) from the connector (CN100) on the CPU-316 board, then remove one screw (PWH3 × 5) and remove the earth terminal.
- (4) Remove two screws (BVTP3 × 8) and remove the USB bracket from the trackball panel.
- (5) Remove the connection cord (USB) from the trackball panel.
- (6) Peel the base sheet from the trackball panel to remove it.



2-3-3. Replacement of Main Parts

1. Replacement of Trackball

If the trackball has dirt, the display will not operate sometimes when moving the trackball.

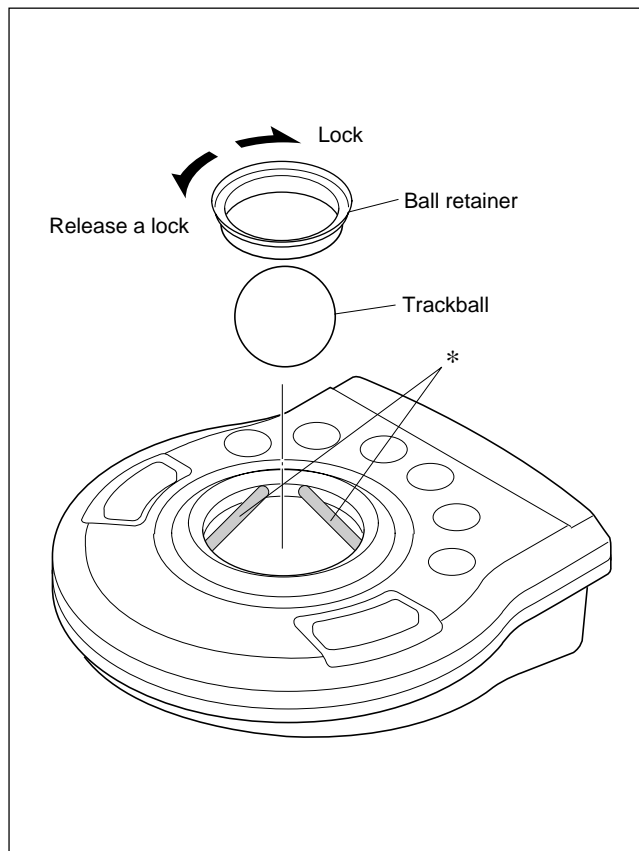
It is recommended to clean the trackball every a month.

Removing

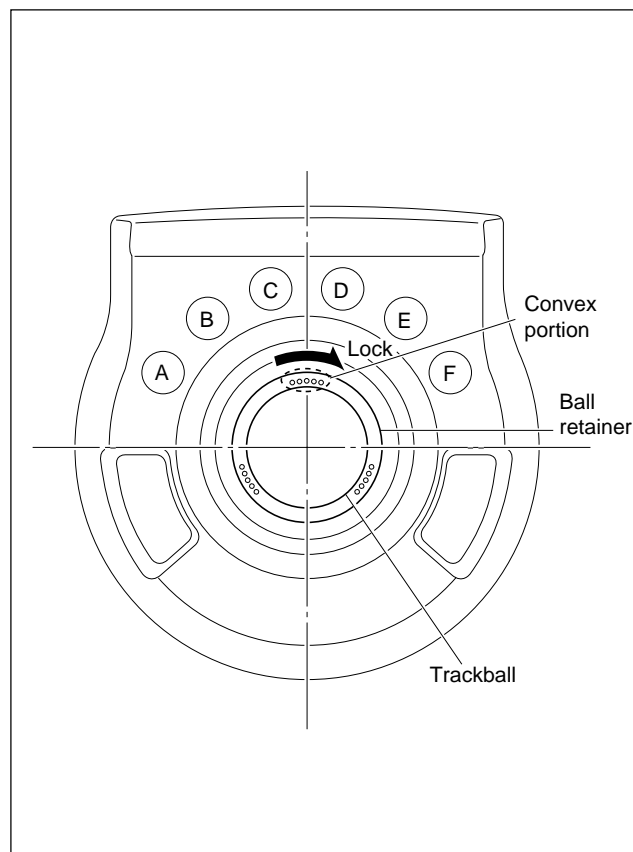
- (1) Turn the ball retainer counterclockwise to release a lock, then remove it.
- (2) Remove the trackball.

Installation

- (3) Wipe the trackball and the *-marked portions in the figure by a soft cloth or the like.
- (4) Install the trackball in the position as shown in the figure.



- (5) Align the convex portion of ball retainer with the position shown in the figure and insert it, then turn the ball retainer clockwise to lock.



2. Replacement of IC link

Note

Total two IC links are mounted on the CPU-316 board.
If a trouble occurs on the unit by flowing the over-current, any IC link will blow.
The IC links should be replaced with following parts after removing foreign matter.

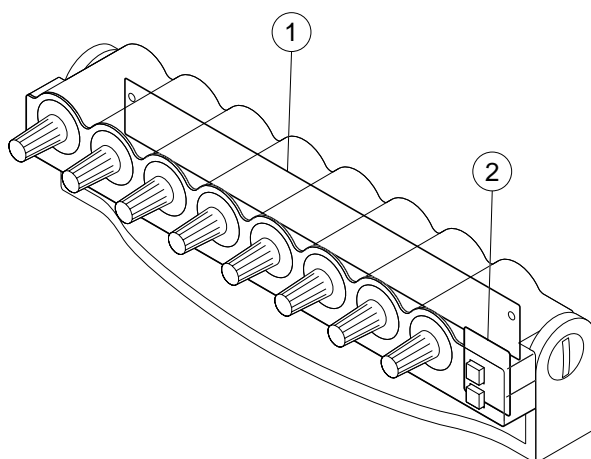
Ref. No.	Board address	Part No.
PS100	D-3 (A side)	△ 1-576-259-21

3. Adjustment after replacement of the CPU- 316 board

After replacing the CPU-316 board, make sure to perform the firmware version up. (However, when the file version No. to version up is equal to existing panel version No., there is no necessity to version up of the firmware.) Refer to Sec. 5-4-3 Step 2, Program download for version up procedure and version confirmation of this firmware.

2-4. Media Bar Control Panel

2-4-1. Location of Boards

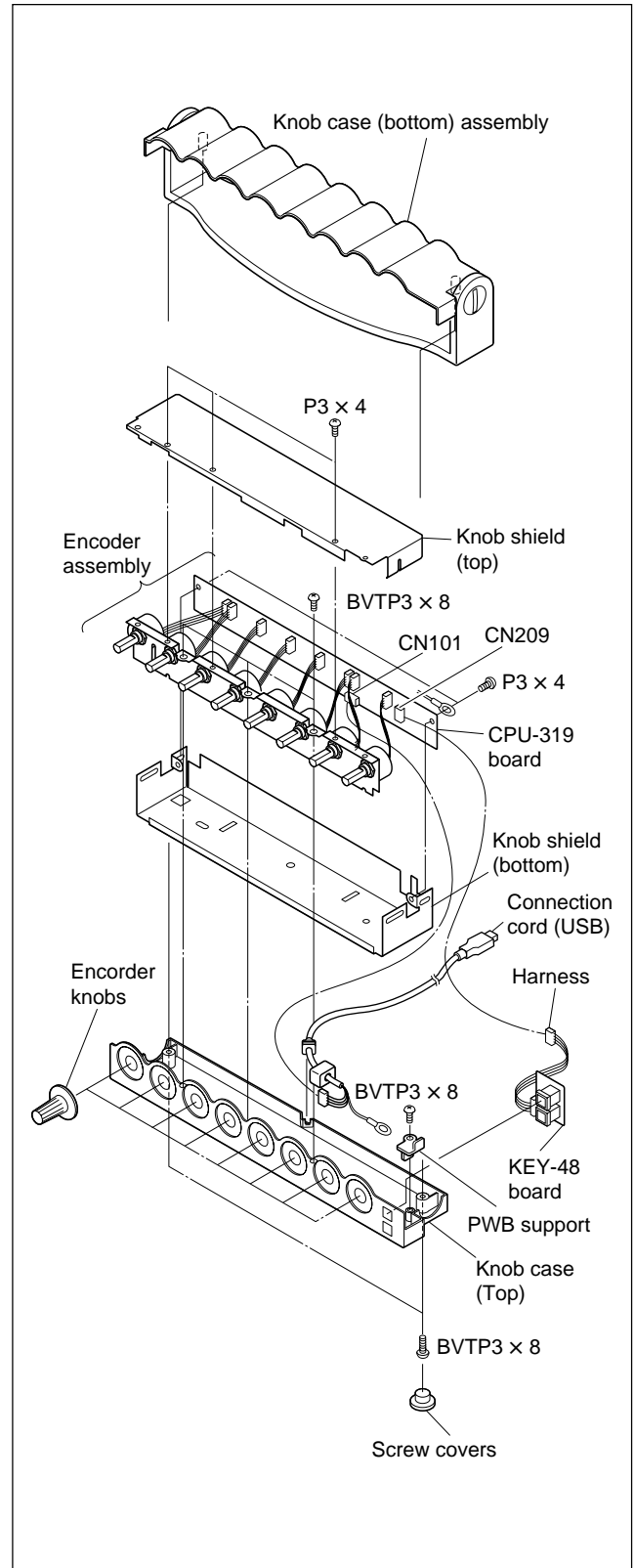


- ① CPU-319 board
- ② KEY-48 board

2-4-2. Removal of Cabinet

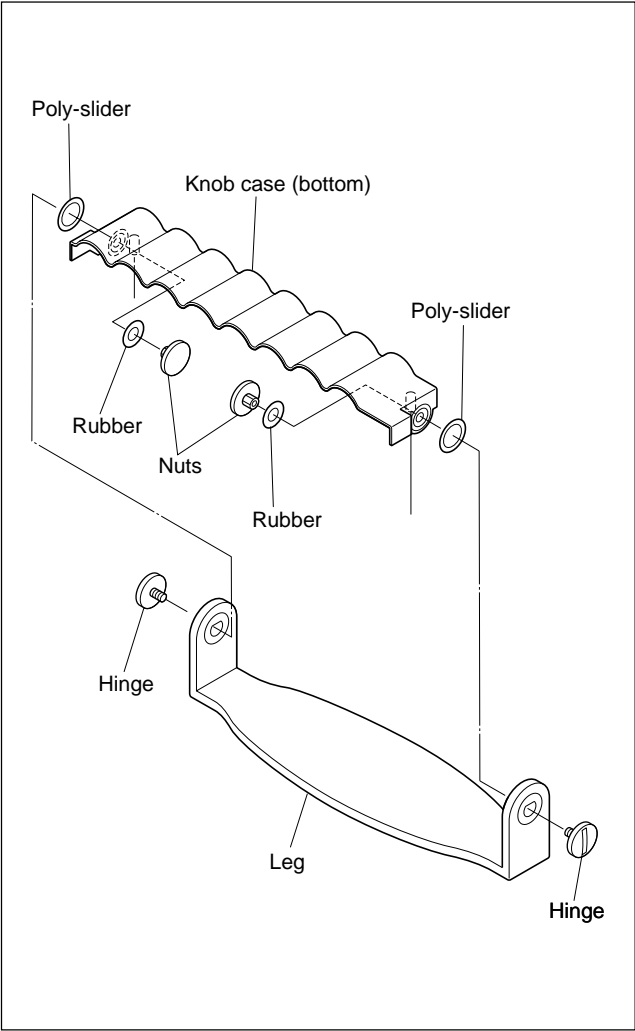
1. Knob Case (Top)

- (1) Remove eight encoder knobs.
- (2) Remove two screw covers and two screws (BVTP3 \times 8), then remove the knob case (bottom) assembly.
- (3) Remove three screws (P3 \times 4) and remove the knob shield (top).
- (4) Remove three screws (BVTP3 \times 8) and two screws (P3 \times 4), remove the encoder assembly.
- (5) Disconnect the connection code (USB) and harness from the connectors (CN101, CN209) on the CPU-319 board.
- (6) Remove the screw (BVTP3 \times 8) and remove the PWB support and KEY-48 board.
- (7) Remove the connection cord (USB) and knob shield (bottom) from the knob case (top).



2. Knob Case (Bottom)

- (1) Remove two screws (BVTP3 × 8) and remove the knob case (bottom) assembly. (Refer to section 2-4-2-1)
- (2) Remove the two hinges, poly-sliders, rubbers and nuts each from both sides of leg, then remove the knob case (bottom) from the leg.



2-4-3. Replacement of Main Parts

1. Replacement of IC Link

Note

An IC link is mounted on the CPU-319 board.
If a trouble occurs on the unit by flowing the over-current, the IC link will blow.
The IC link should be replaced with following parts after removing foreign matter.

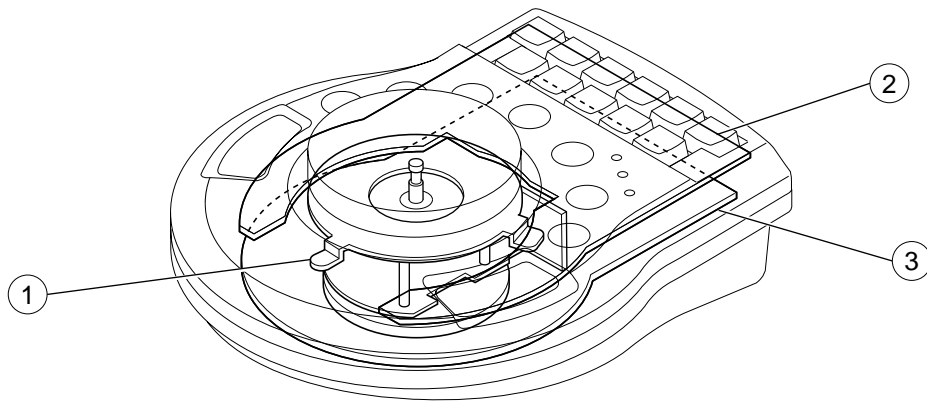
Ref. No.	Board address	Part No.
PS101	C-1 (A side)	△ 1-576-259-21

2. Adjustment after replacement of the CPU- 319 board

After replacing the CPU-319 board, make sure to perform the firmware version up. (However, when the file version No. to version up is equal to existing panel version No., there is no necessity to version up of the firmware.) Refer to Sec. 5-4-3 Step 2, Program download for version up procedure and version confirmation of this firmware.

2-5. Jog & Shuttle Control Panel

2-5-1. Location of Main Parts

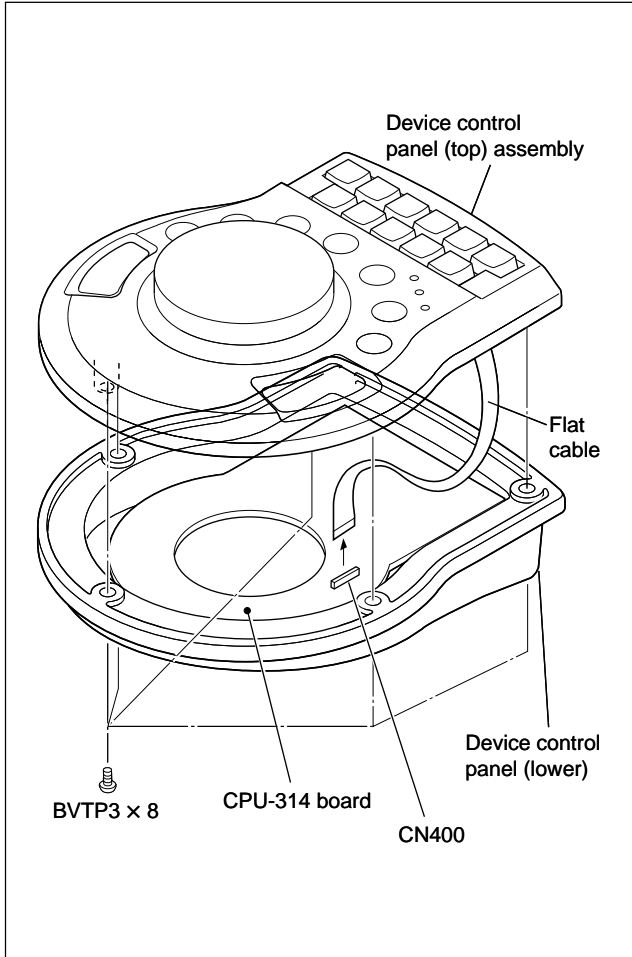


- ① Clutch assembly, electromagnetic
- ② KY-470 board
- ③ CPU-314 board

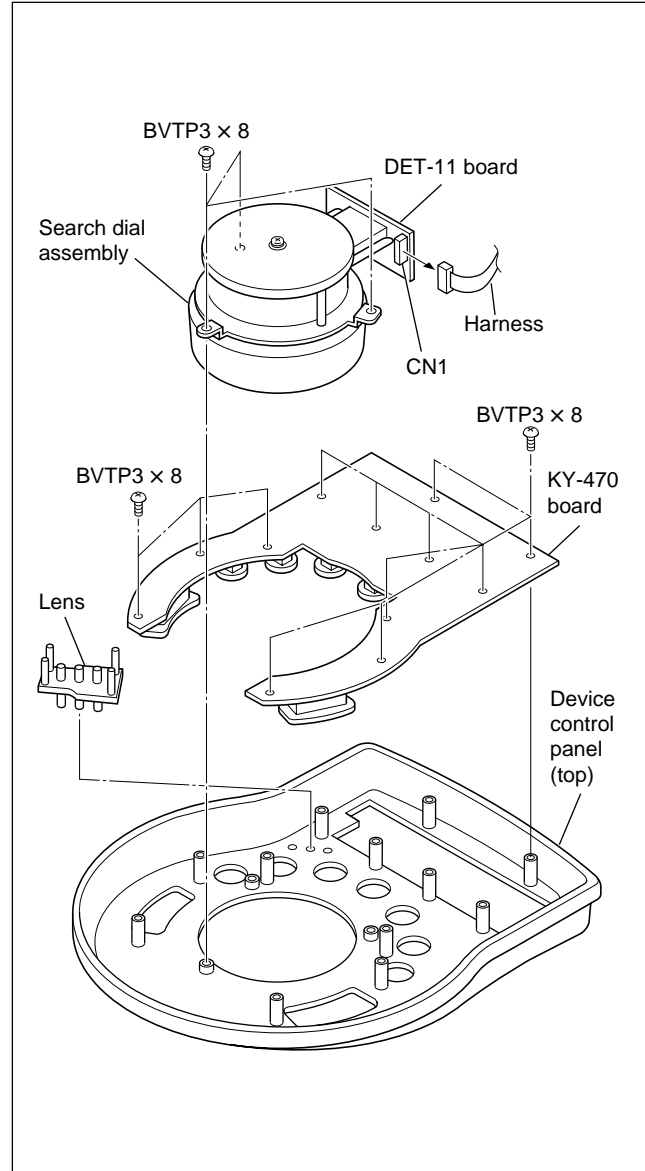
2-5-2. Removing of Cabinet

1. Device Control Panel (Top)

- (1) Remove five screws (BVTP3 × 8) and remove the device control panel (top) assembly.
- (2) Disconnect the flat cable from the connector (CN400) on the CPU-314 board.



- (3) Disconnect the harness from the connector (CN1) on the DET-11 board.
- (4) Remove twelve screws (BVTP3 × 8) and remove the KY-470 board.
- (5) Remove the lens from the device control panel (top).
- (6) Remove three screws (BVTP3 × 8) and remove the search dial assembly.

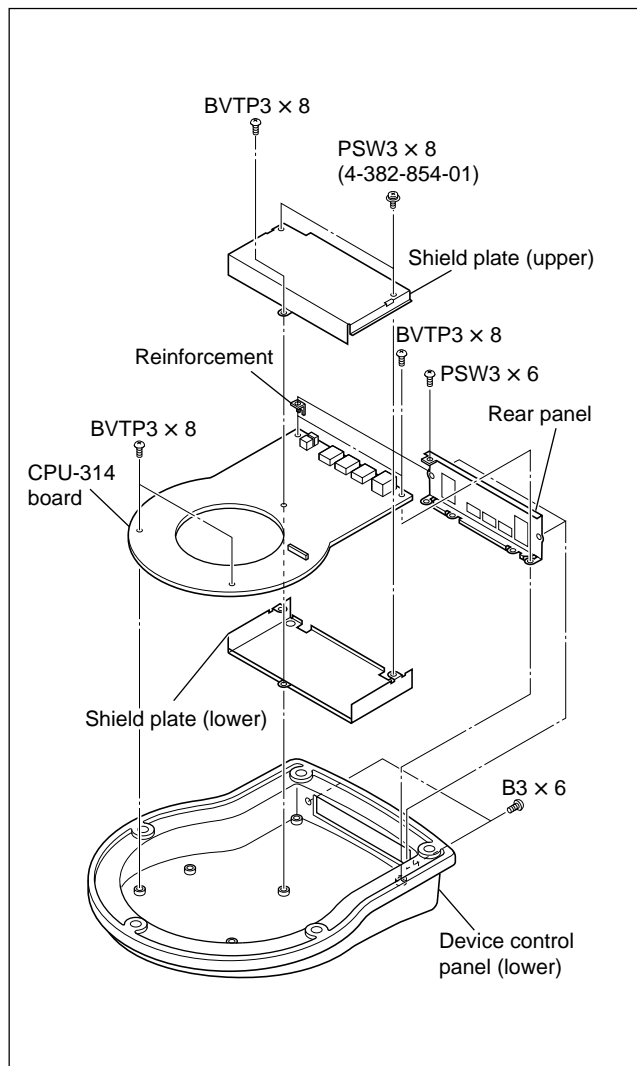


Note

When disconnecting/re-connecting the flat cable, be careful not to damage it.

2. Device Control Panel (Lower)

- (1) Remove the device control panel (top) assembly, then disconnect the flat cable from the connector (CN400) on the CPU-314 board. (Refer to steps (1) and (2) in section 2-5-2-1.)
- (2) Remove three screws (PSW3 \times 8 : 2 pieces, BVTP3 \times 8 : 1 piece) and remove the shield plate (upper).
- (3) Remove five screws (BVTP3 \times 8 : 4 pieces, PSW3 \times 6 : 1 piece), then remove the CPU-314 board, shield plate (lower) and reinforcement.
- (4) Remove two screws (B3 \times 6) and remove the rear panel.



Note

When disconnecting/re-connecting the flat cable, be careful not to damage it.

2-5-3. Replacement of Main Parts

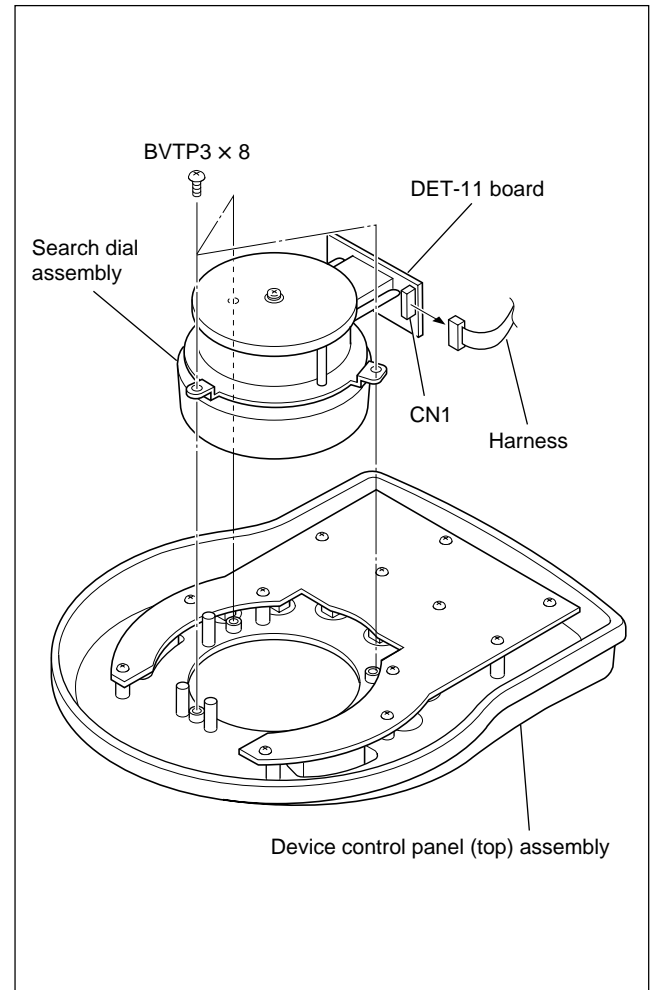
1. Replacement of electromagnetic clutch assembly

Required tool

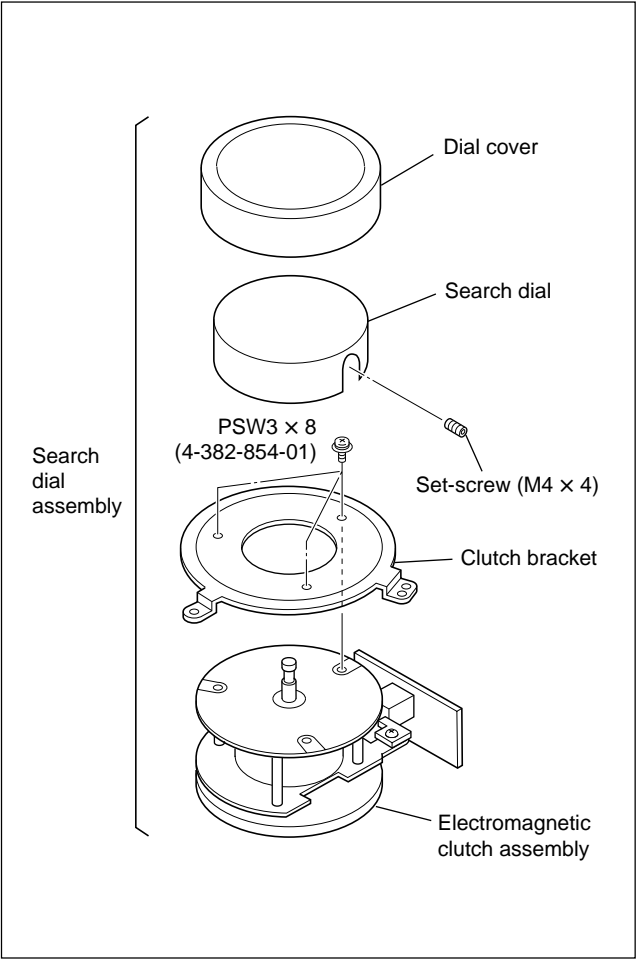
L-shaped hex.wrench

(Width across flat = 3 mm) : 7-721-140-60

- (1) Remove five screws (BVTP3 \times 8) and remove the device control panel (upper) assembly. (Refer to section 2-5-2.)
- (2) Disconnect the harness from the connector (CN1) on the DET-11 board.
- (3) Remove three screws (BVTP3 \times 8) and remove the search dial assembly.



- (4) Remove the dial cover from the search dial.
- (5) Remove a set-screw (M4 × 4) and remove the search dial.
- (6) Remove three screws (P3 × 4) and remove the electromagnetic clutch assembly from the clutch bracket.



- (7) Install the electromagnetic clutch assembly in the reverse order of steps (1) through (6).

Adjustment after replacement

After replacement of the electromagnetic clutch assembly, make sure to "Search Dial Pulse Amplifier Adjustment" of the DET-11 board. (Refer to Section 7.)

2. Replacement of Fuse

Note

Total two fuses are mounted on the CPU-314 board.
If a trouble occurs on the unit by flowing the over-current, any fuse will blow.
The fuses should be replaced with following parts after removing foreign matter.

Ref. No.	Board address	Part No.
F101	D-2 (A side)	△ 1-576-270-21

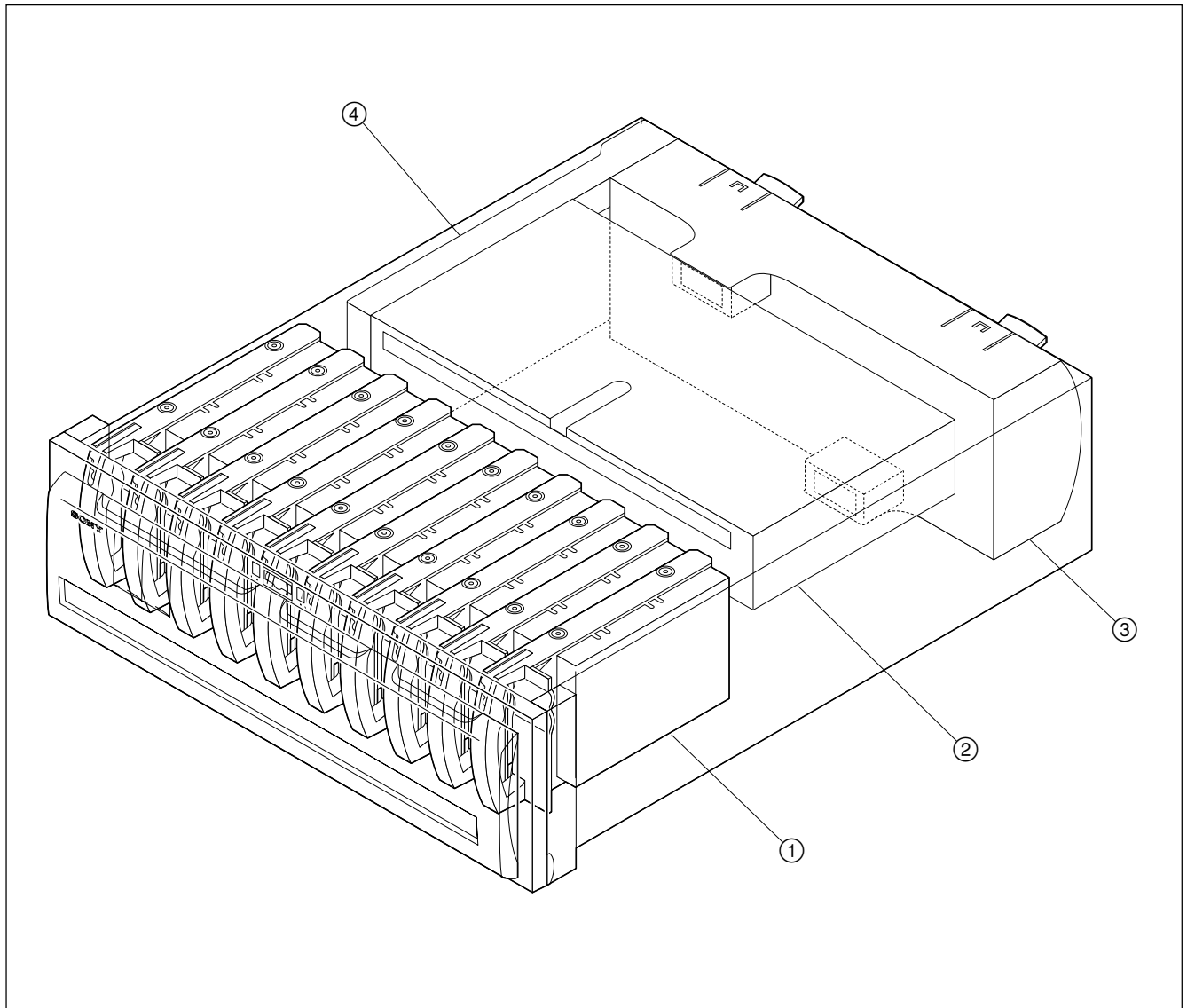
3. Adjustment after replacement of the CPU- 314 board

After replacing the CPU-314 board, make sure to perform the firmware version up. (However, when the file version No. to version up is equal to existing panel version No., there is no necessity to version up of the firmware.) Refer to Sec. 5-4-3 Step 2, Program download for version up procedure and version confirmation of this firmware.

Section 3

DMW-ST001 Service Overview

3-1. Location of the boards

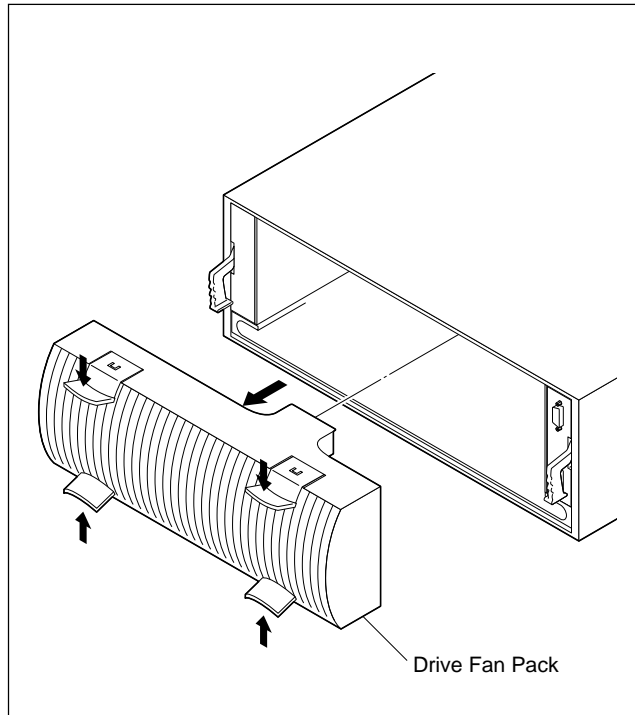


- ① Disk module
- ② Power supply unit
- ③ Drive fan pack
- ④ Link control card

3-2. Replacement of Main Parts

1. Drive fan pack

- (1) Hold the four knobs by the fingers on the drive fan pack as shown in the figure by arrows, remove the drive fan pack toward in front shown by arrow.



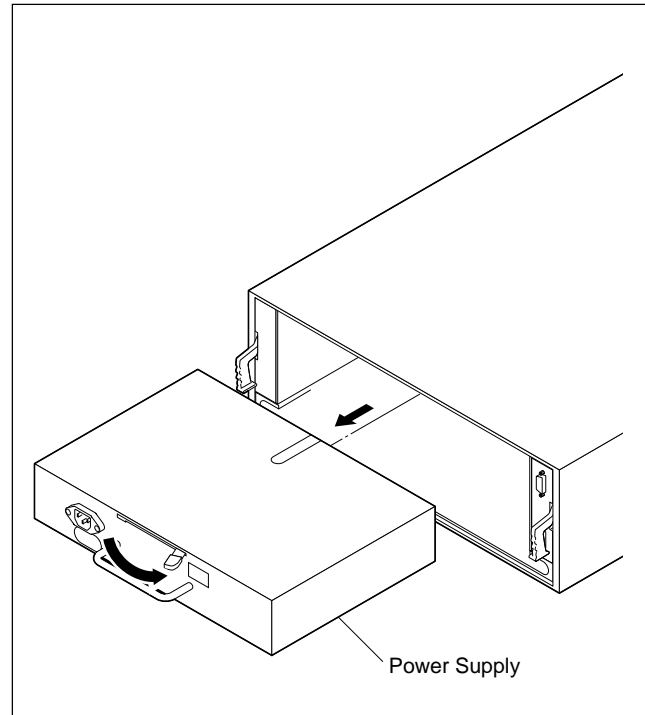
Note

- When replacement of the drive fan pack, it can removing and reassembling just as remaining ON the power of the DMW-ST001.
- When drive fan pack was removed, cooling check indicator of power supply unit will blinking.
When leave the drive fan pack was removed more than two minutes, power supply of HDD is turned off. (But, power supply of the DMW-ST001 is hold ON.) When reassemble the drive fan pack, power supply of HDD is return to ON.

Drive Fan Pack : EMC Parts No. SFAN

2. Power supply unit

- (1) Remove the drive fan pack. (Refer to Sec. 3-2. 1. Drive fan pack.)
- (2) Turn off the power and disconnect the AC cord.
- (3) Unlock the lever in arrow direction on the figure, remove the power supply unit toward in front.



Note

- When replacing the power supply unit, confirm the DMW-S01NL system was stopped.

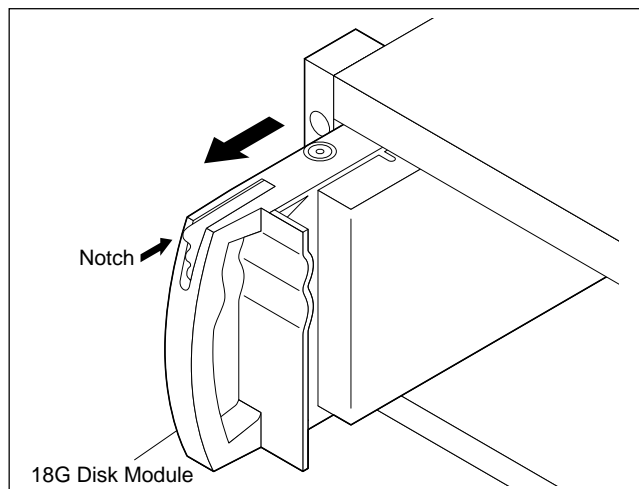
Adjustment after replacing the power supply unit

When replacement the power supply unit, setting or adjustment etc., are not required.

Power Supply : EMC Parts No. DAEPS

3. Disk module (HDD)

- (1) Remove the drive fan pack and turn off the power of the unit.
- (2) Unlock the key and open the front door.
- (3) Remove the disk module by pressing the notch as shown in the figure.



Note

- Disk module is extremely weak by shock hazard, take care to handle it to prevent shock. Therefore, disk module is damaged inner of it by only a very little shock in case of it places on the table. If a worker has inexperienced of handling the disk module, make sure not performs of replacing it to the utmost.
- When replacing, make sure use the provided ESD wrist band. After clip of an ESD wrist band is installed to the metallic chassis etc., of the DMW-ST001, attach your arm in order that metallic button of the band touches to your skin.
- As DMW-ST001 employs leaving the disk module just as it was removed, air conditioning is incorrectly operated, it causes the trouble, so make sure that disk module is not removed until new one comes to hand.
- When disk module is removing or inserting, make sure turn off the power of the DMW-ST001.
When rotating the disk, be careful not to give the vibration or shock hazard as well as not to damage it. Also do not remove the disk module until rotation of the disk is stopped in condition that turned off the power of the DMW-ST001. (Wait for one minute or more until rotating is stopped.)
- Do not apply the power to the DMW-ST001 leaving the front door just as it was opened. Make sure close the front door after completed the replacement that it was opened temporarily for replacement of the disk module.

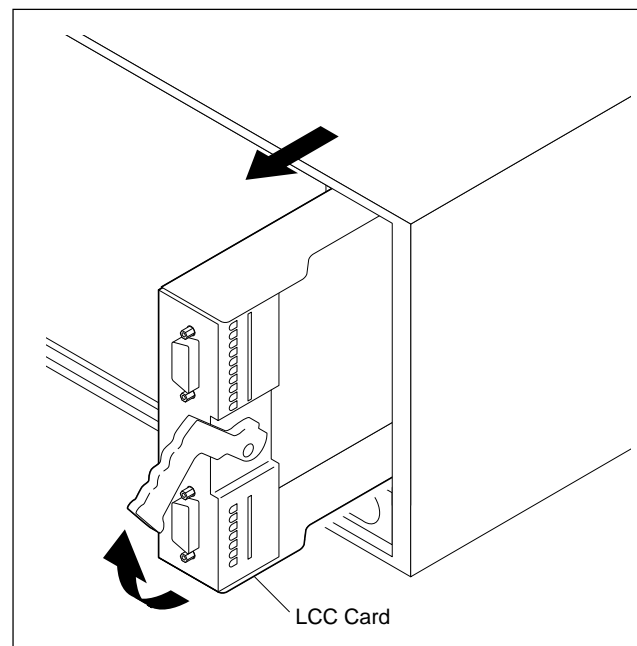
Adjustment after replacing the disk module

After replacement of the disk module, perform the remaking of the logical drive using disk utility. (Refer to Sec. 5-6-5, 2)

18GB Disk Module : EMC Parts No. SONY18

4. Link control card

- (1) Remove the drive fan pack and turn off the power of the unit.
- (2) Pull up the lever in arrow direction of the figure and remove the link control card toward in front.



Note

When removing the link control card, confirm the DMW-S01NL system was stopped.

Adjustment after replacing the link control card

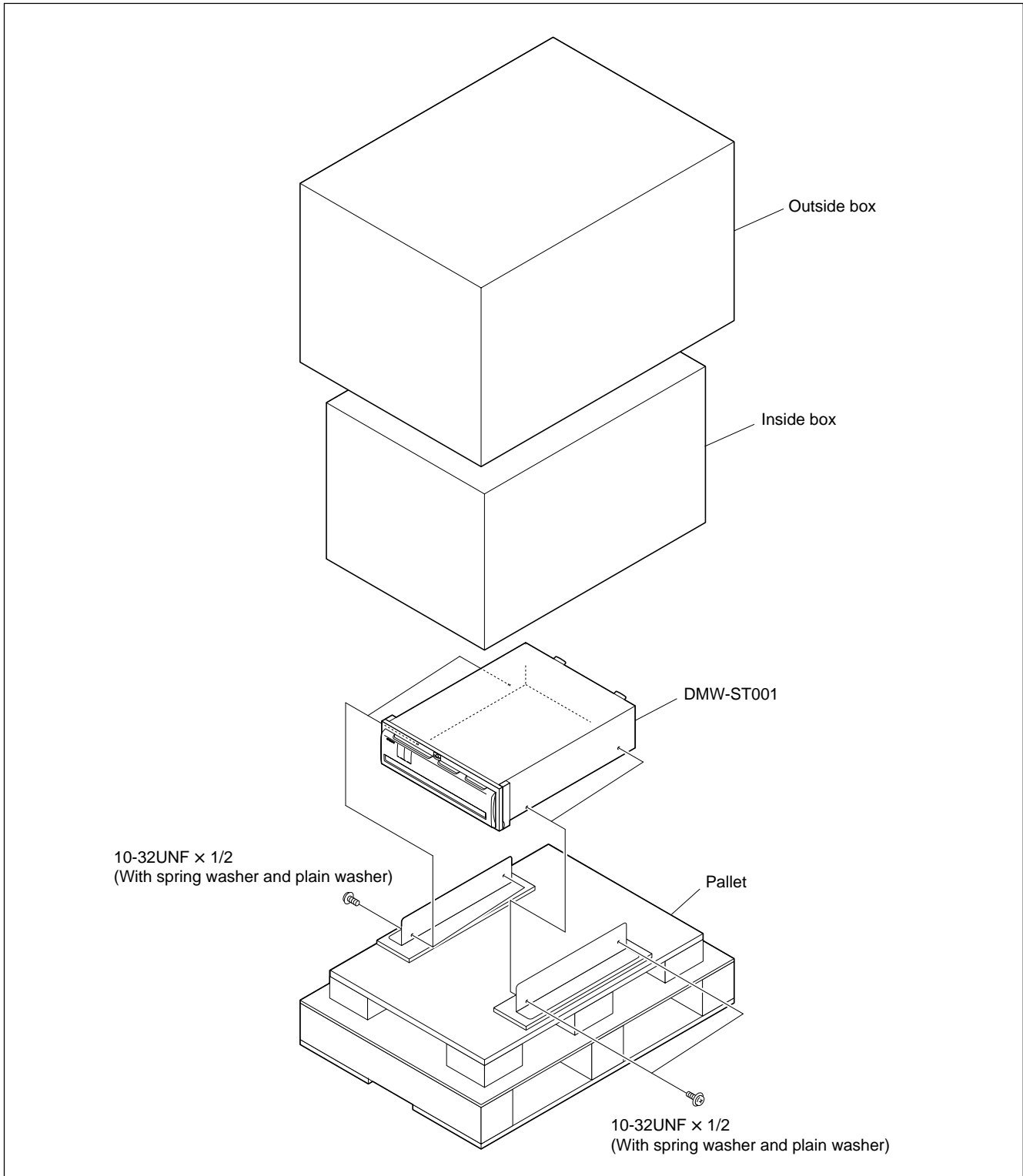
After replacement of the link control card, setting or adjustment etc., are not required.

LCC Card : EMC Parts No. DAELCC

3-3. Caution of transportation

When transporting the DMW-ST001, using the provided (exclusive use) packing case and fixed to the pallet as shown in follows figure.

Shipping carton box : EMC Part No. SDAEPKG

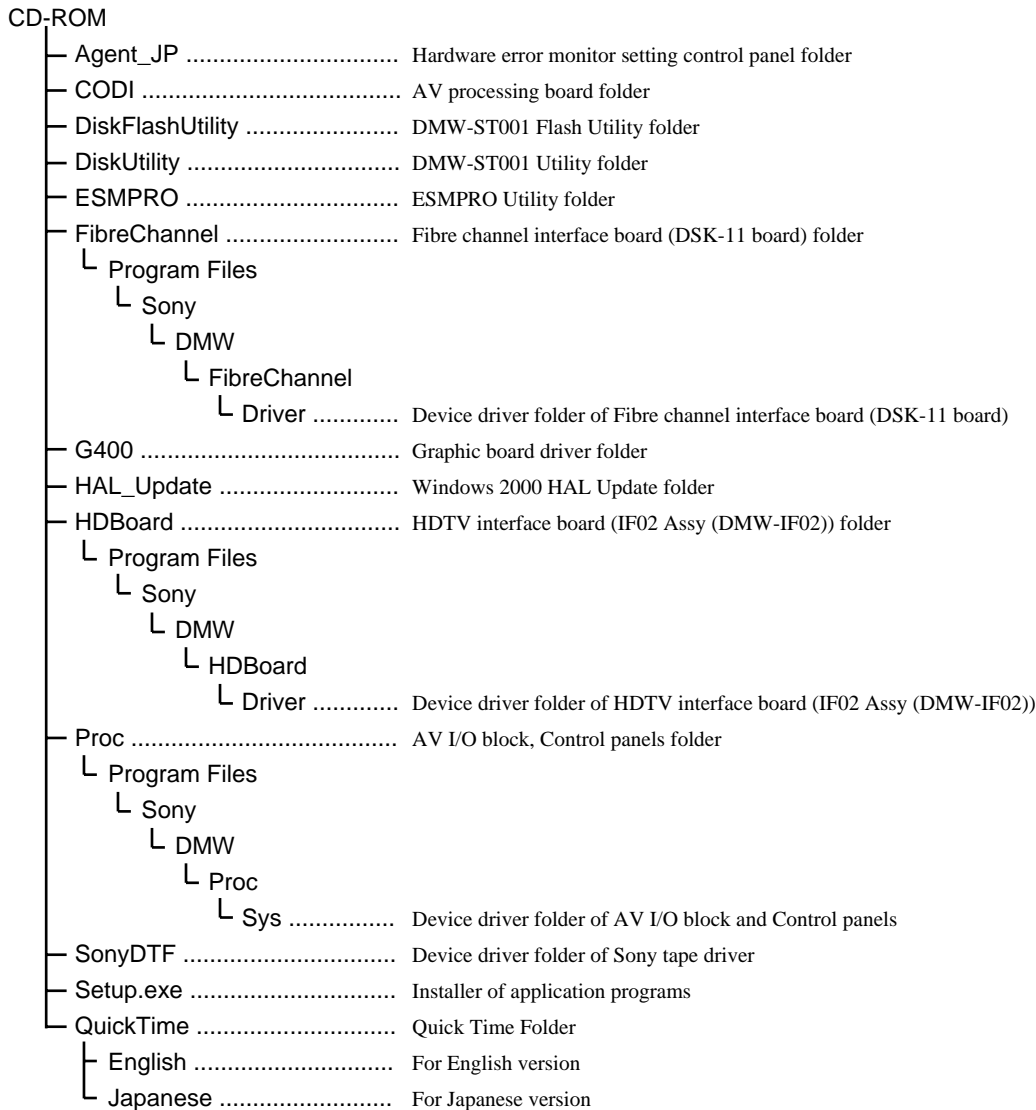


Section 4

Upgrading of Software Version and Reinstallation

4-1. Installing CD-ROM configuration

The following shows installing CD-ROM configuration and main driver location.



4-2. Upgrading of Application Software Version

When application software version is upgraded, firmware version is required to upgrades of each board in some cases. Then, upgrade them according to the following procedures.

1. Before upgrading of the application software, it is required to uninstall of the already installed application software. Then, uninstall them according to Sec. 1-9-5. Reinstalling Applications procedures.
2. Refer to Sec. 5-3-3. for performing of AV I/O block firmware version confirmation and software version upgrade.
3. Refer to Sec. 5-4-3. for performing of all control panel firmware version confirmation and version upgrade, such as audio control panel, trackball control panel, media bar control panel and jog & shuttle control panel.

4-3. Replacement of Hard Disk

Notes

1. When replacing the hard disk, use the following Operating System installed HDD (Equivalent of factory default setting).
OS pre-installed HDD part No.
Japanese OS HDD : 9-885-010-95
English OS HDD : 9-885-010-96
2. Install the Operating System according to Sec. 1-9. System Initial Setup procedures.
If operating system is not installed on new HDD drive, please refer to 4-4 for installing operating system, configurations, installing drivers and application software.

4-4. Reinstallation

Reconfiguration the system depends on the software reinstallation, performs the following procedures.

1. Installation of Windows 2000 Professional	Refer to Sec. 4-4-1.
2. Installation and Setting of SNMP for ServerAgent	Refer to Sec. 4-4-2.
3. Installation of Difference Module	Refer to Sec. 4-4-3.
4. Creation of UserGroup for ServerManager	Refer to Sec. 4-4-4.
5. Installation of ServerAgent	Refer to Sec. 4-4-5.
6. Halt of DMI Event Communication Function	Refer to Sec. 4-4-6.
7. DMI Supervisory Function Disable Check	Refer to Sec. 4-4-7.
8. Setting of Memory Dump	Refer to Sec. 4-4-8.
9. Setting of Dr. Watson	Refer to Sec. 4-4-9.
10. Creation of Windows 2000 Setup Boot Disk	Refer to Sec. 4-4-10.
11. Setting of ESMPRO Server Manager	Refer to Sec. 4-4-11.
12. Reading of AlertManager Setting File	Refer to Sec. 4-4-12.
13. Setting the ESMPRO Report Service	Refer to Sec. 4-4-13.
14. Other Additional Setting Items	Refer to Sec. 4-4-14.
15. Installation of Board Drivers	Refer to Sec. 4-4-15.
16. Copy of Graphic Board Driver	Refer to Sec. 4-4-16.
17. System Initial Setup	Refer to Sec. 4-4-17.

4-4-1. Installation of Windows 2000 Professional

Use Windows 2000 Professional CD-ROM for this installation.

1. Insert Windows 2000 Professional CD-ROM into the CD-ROM drive. Then, restart the computer.
2. The installer of Windows 2000 is started.
3. Carry out the installation according to the given instructions.
4. Product key is stuck on the top board of the DMW-S01NL/S02NL.

Notes

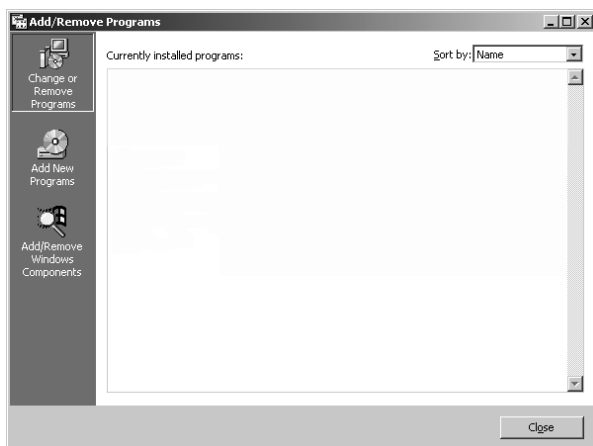
1. Use NTFS for the partition.
2. Before installation, remove all USB devices.

4-4-2. Installation and Setting of SNMP for ServerAgent

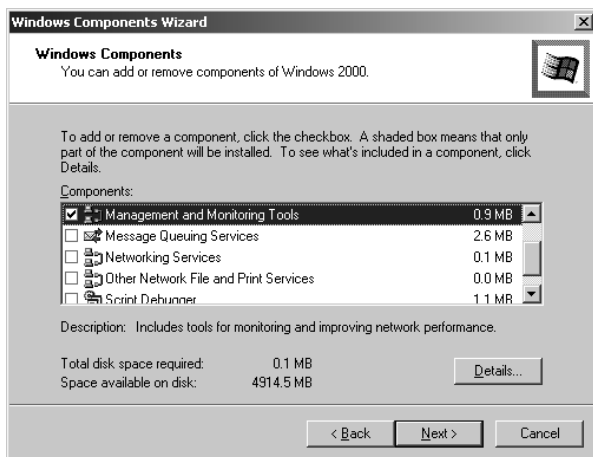
Install SNMP required to use ServerAgent which is an error monitoring tool for Windows.

Use Windows 2000 Professional CD-ROM for this installation.

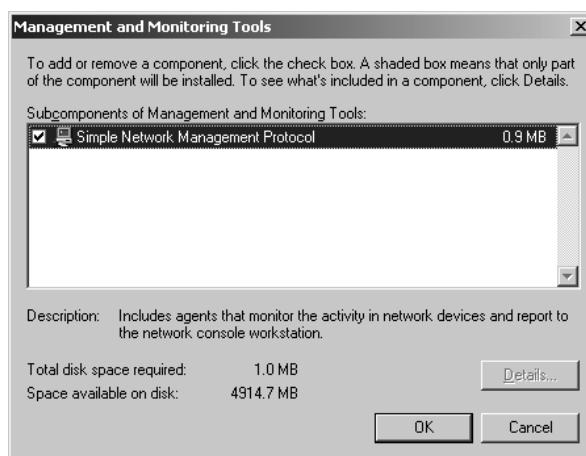
1. Click “Settings” → “Control Panel” from Start Menu.
2. Click “Add/Remove Programs” to open the dialog.



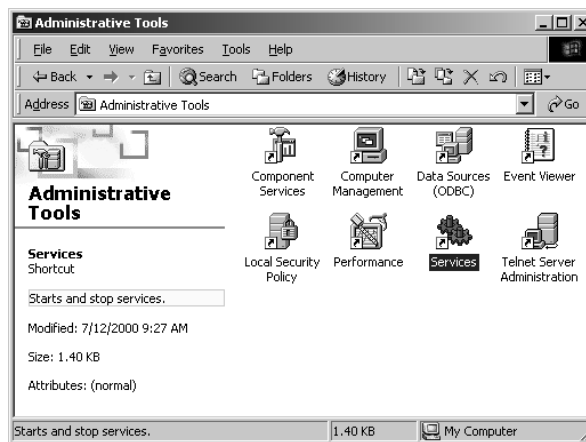
3. Click “Add/Remove Windows Components” to open Windows components wizard dialog.



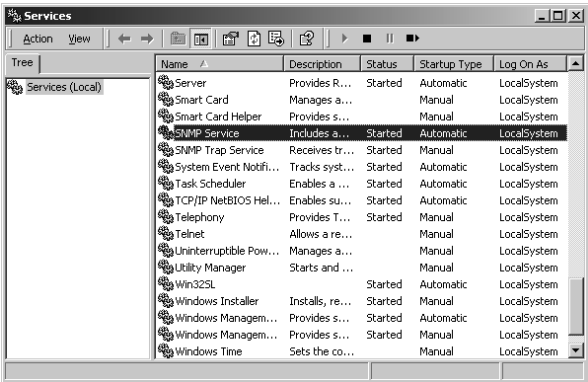
4. Select “Management and Monitoring Tools”, and click “Details...” button to open Management and Monitoring Tools dialog.



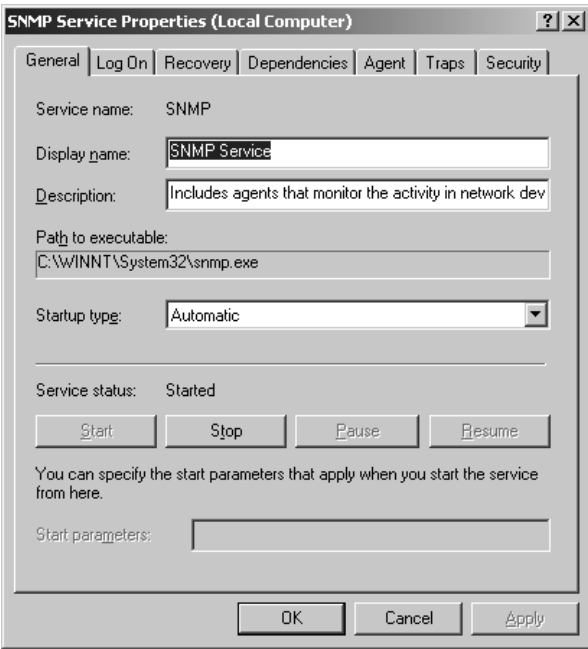
5. Check “Simple Network Management Protocol” box and click “OK” button.
6. Click “Next” button in Windows components wizard dialog to install SNMP.
7. Click “Finish” button when Windows components wizard is completed.
8. Click “Close” button in Add/Remove Programs dialog.
9. Double click “Administrative Tools” icon on the control panel to display Administrative Tools dialog.



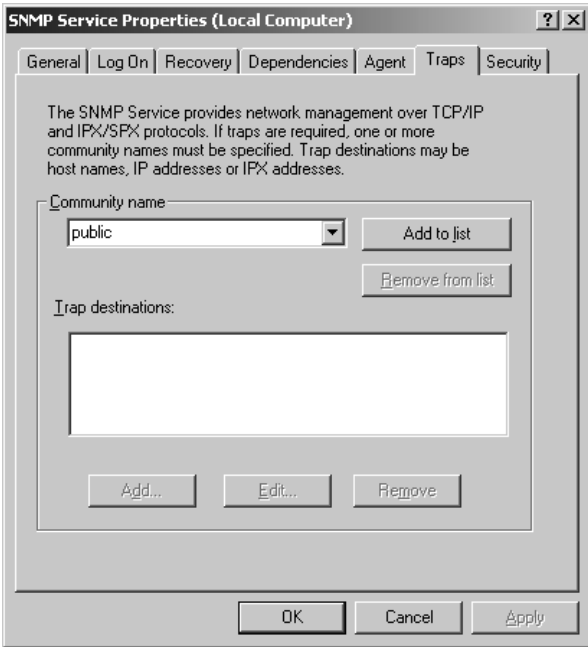
10. Double click “Services” icon to display Services dialog.



11. Click the mouse right button on “SNMP Service” and click “Properties” of Context Menu to display SNMP Service Properties (Local Computer) dialog.

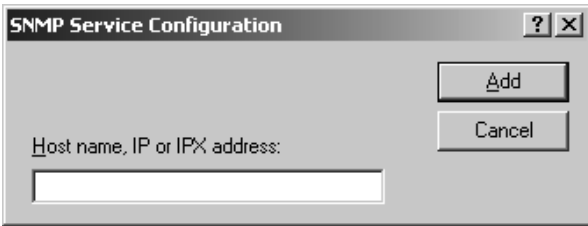


12. Click “Traps” tab. Enter “public” for Community Name and click “Add to list”.



“Add to list” button will be disabled, and “Remove from list” button becomes clicable.

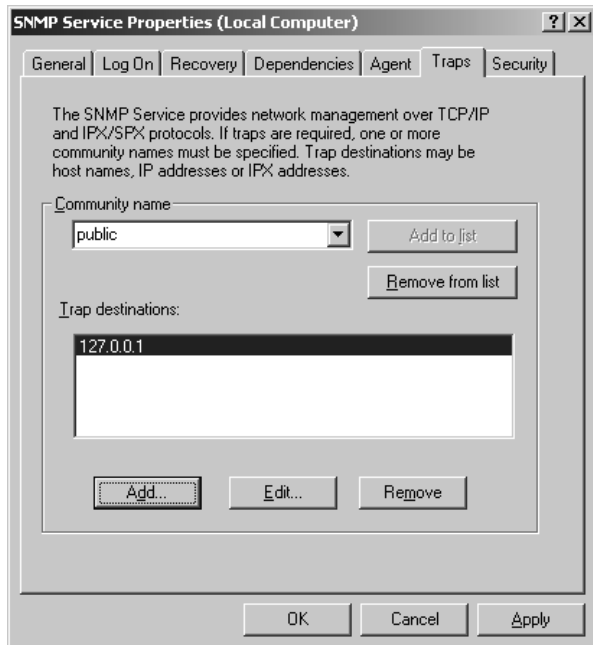
13. Click “Add...” button to display SNMP service configuration dialog.



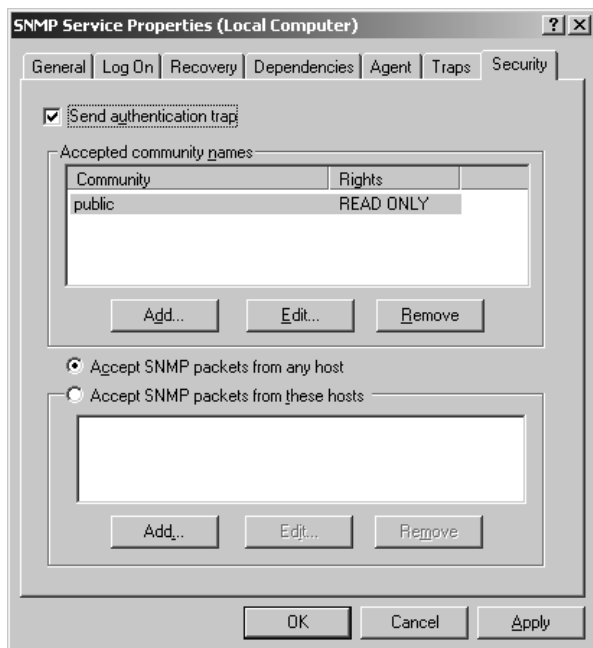
14. Enter IP address “127. 0. 0. 1”.



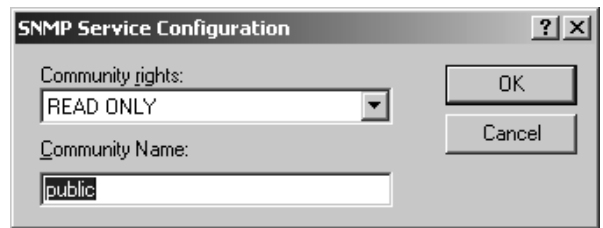
15. Click “Add” button, “127. 0. 0. 1” will be shown as trap destinations.



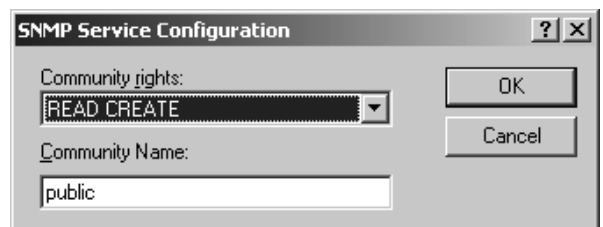
16. Click “Security” tab.



17. Click “public” and highlight in each acceptable community name window, and click “Edit...” button. SNMP service configuration dialog will be displayed.



18. Set the community right to “READ CREATE”, and click “OK” button.



19. Click “OK” button in SNMP Service Properties dialog for local computer. SNMP Service Properties dialog will be closed for local computer.
20. Click “X” button in Service dialog to close it.

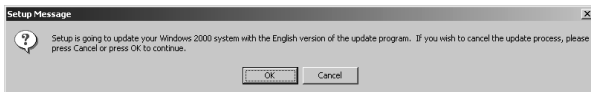
4-4-3. Installation of Difference Module

Use installation CD-ROM for this installation.

Install the following :

- HAL (hal.dll) for Windows 2000
- Express Logging Driver (explog.sys)
- RAS driver (necras.sys)

1. Insert installation CD-ROM into CD-ROM drive.
2. Double click "**D : \HAL_Update\W2K\update.exe**".
Setup Message dialog will be displayed.

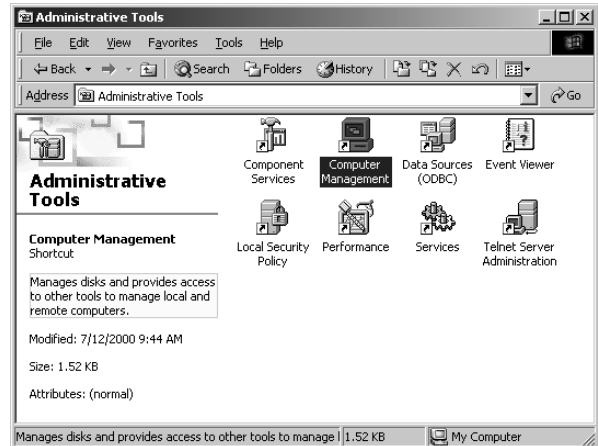


3. Click "OK" button.
Windows 2000 Setup dialog will be displayed.
4. Click "Restart Computer".

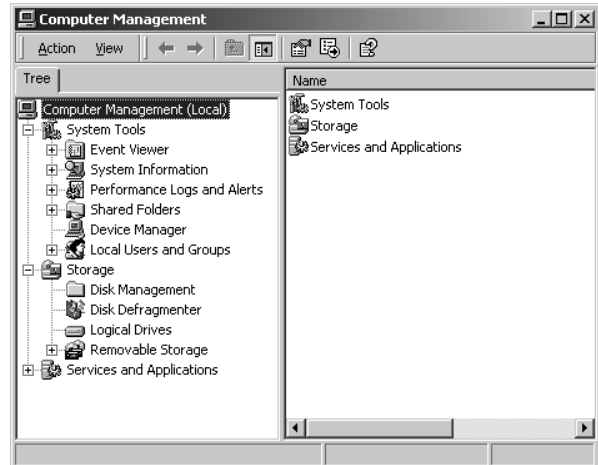


4-4-4. Creation of User Group for Server Manager

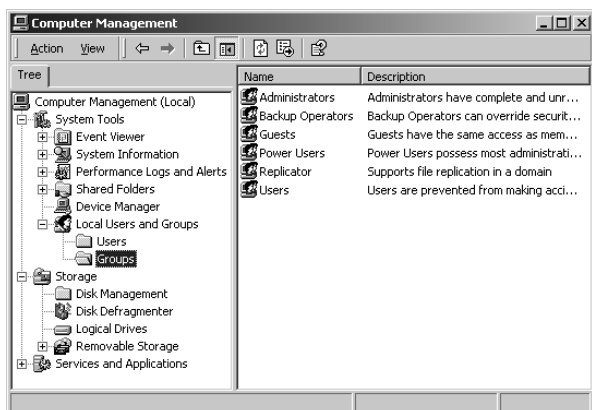
1. Select "Settings" → "Control Panel" from Start menu.
2. Double click "Administrative Tools" icon.
Administrative Tools dialog will be displayed.



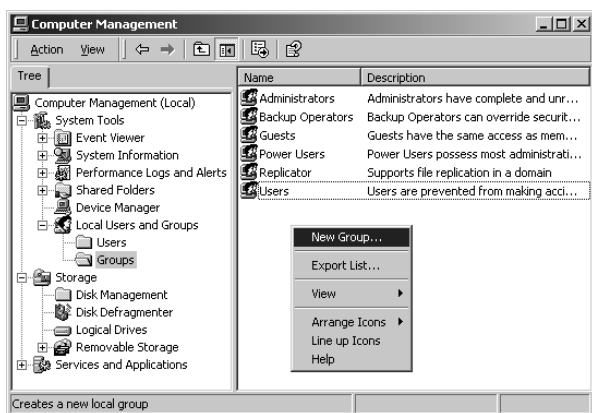
3. Double click "Computer Management" icon.
Computer Management dialog will be displayed.



4. Click “Local Users and Groups”, and double click “Groups” folder.
Group List will be displayed.



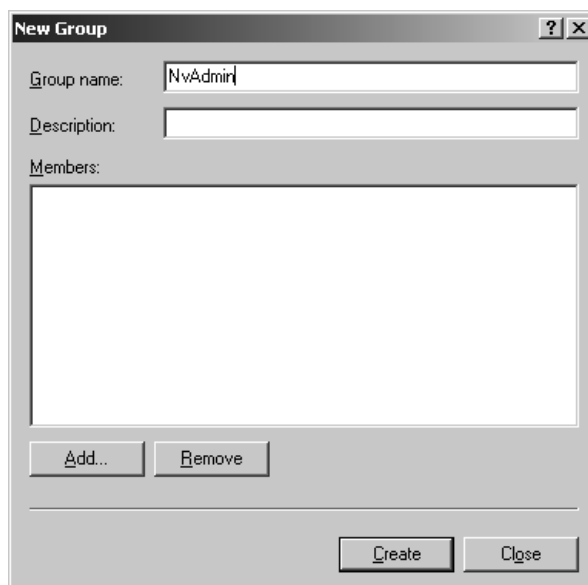
5. Click the mouse right button on Group List.
Context Menu will be displayed.



6. Click “New Group...”.
New Group dialog will be displayed.



7. Enter “NvAdmin” for group name.



8. Click “Create” button.
9. Click “Close” button.
New Group dialog will be closed.
10. Close Computer Management dialog.

4-4-5. Installation of ServerAgent

Install ServerAgent which is an error monitor tool for Windows.

Use installation CD-ROM for this installation.

1. Insert installation CD-ROM into CD-ROM drive.
Double click “D : \ESMPRO\setup.exe”.
ESMPRO Installation Menu dialog will be started.



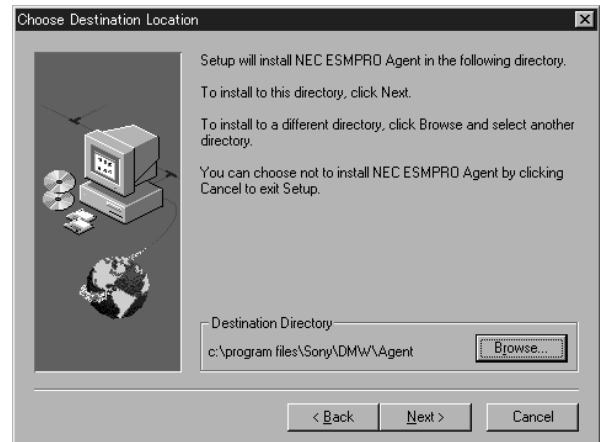
2. Click “Agent”.
Installer will be started.



3. Carry out the installation according to the given instructions.

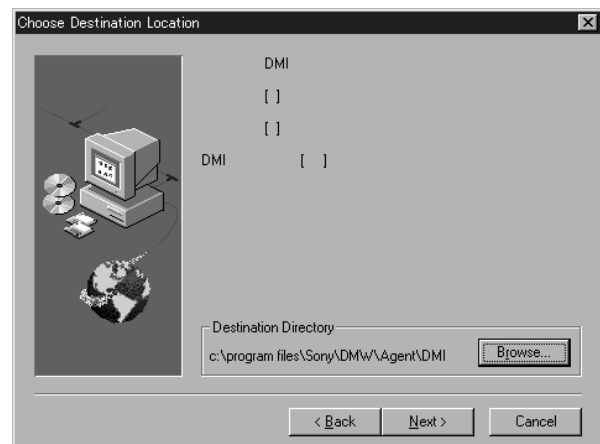
Set Installation folder to

c : \program files\Sony\DMW\Agent.



Set DMI Installation folder to

c : \program files\Sony\DMW\Agent\DMI.



After a short while, AlertManager dialog will be displayed.

- Click **“Manager”** from ESMPRO Installation Menu dialog.



- Carry out the installation according to the given instructions.

Set Installation folder to

c : \program files\Sony\DMW\ESMPRO.



The installation of ESMPRO is completed.

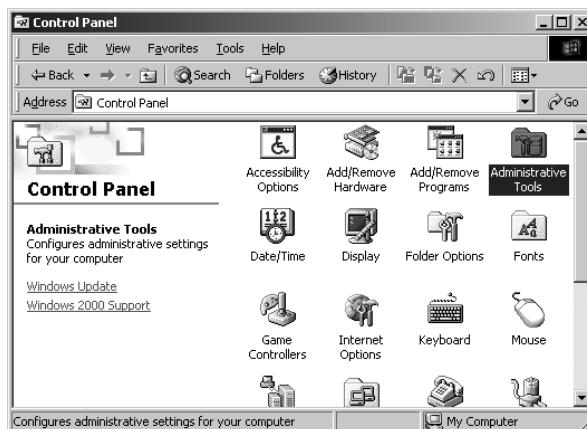


- Click **“OK”** button, and restart the computer.

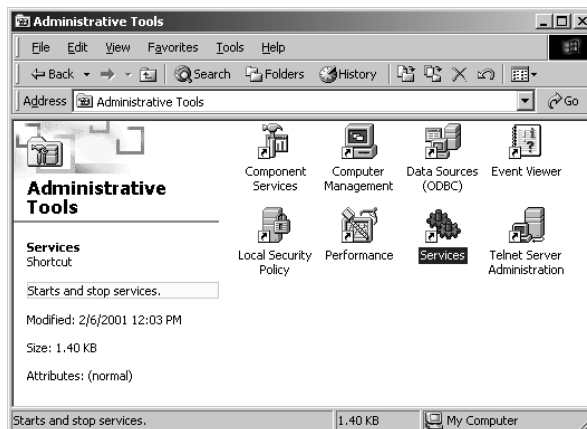
4-4-6. Halt of DMI Event Communication Function

“DMI Event Watcher” Service will be halted.

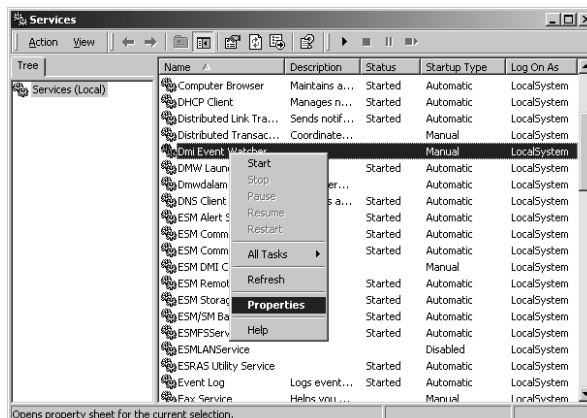
- Select **“Settings”** → **“Control Panel”** from Start Menu.



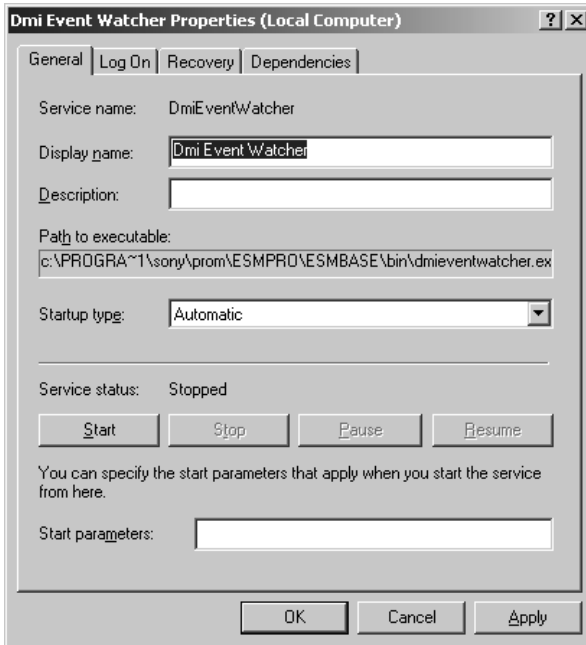
- Double click **“Administrative Tools”** icon. Administrative Tools dialog will be displayed.



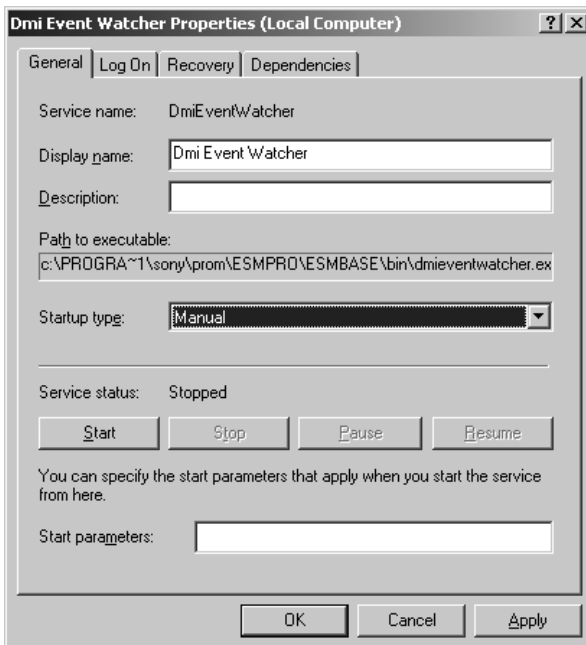
- Double click **“Service”** icon. Service dialog will be displayed.



- Click the mouse right button on “DMI Event Watcher”, and click “Properties” of Context Menu.
Dmi Event Watcher Properties for local computer dialog will be displayed.



- Set “Startup Type” to “**Manual**”.



- Click “OK” button.
- Close Service dialog.

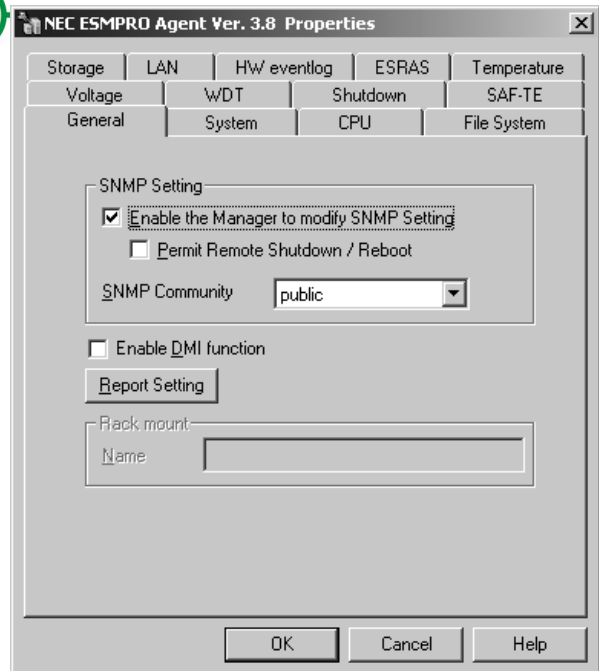
4-4-7. DMI Supervisory Function Disable Check

DMI is not used on DMW-S01NL/S02NL, thus DMI supervisory function shall be OFF.

- Select “Settings” → “Control Panel” from Start Menu.



- Double click “NEC ESMPRO Agent” icon.
NEC ESMPRO Agent Properties dialog will be opened.

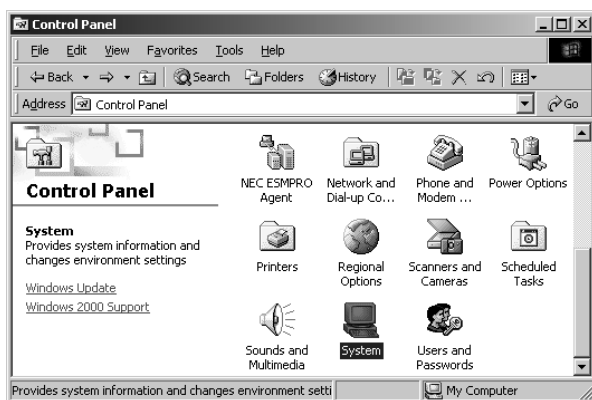


- Click “General” tab to **uncheck** the check box for “Enable DMI Function”.
- Click “OK” button in the dialog.
The dialog will be closed.
- Close Control Panel.

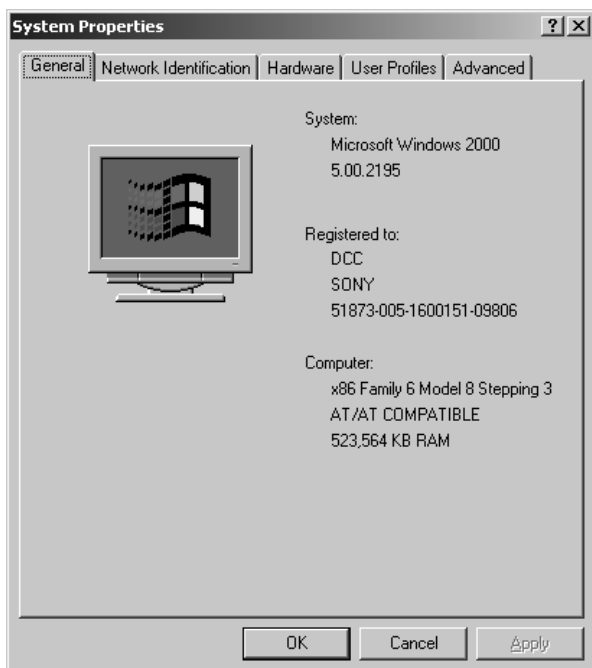
4-4-8. Setting of Memory Dump

This is made to collect memory dump (debugging information) in DMW-S01NL/S02NL.

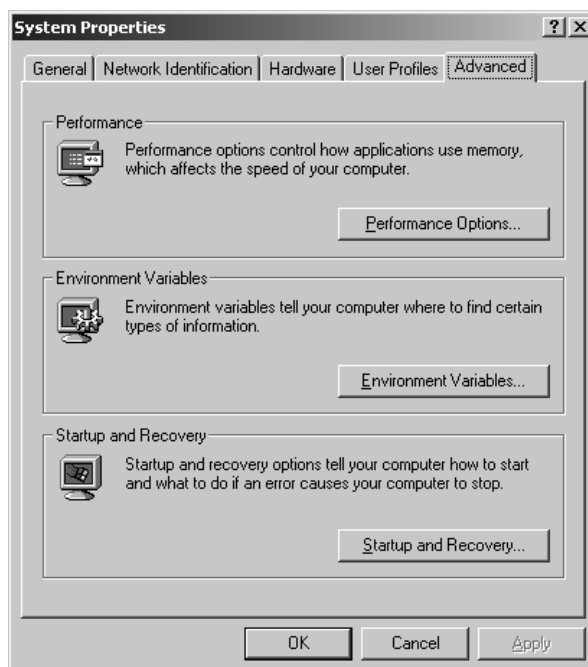
1. Select “Settings” → “Control Panel” from Start Menu.



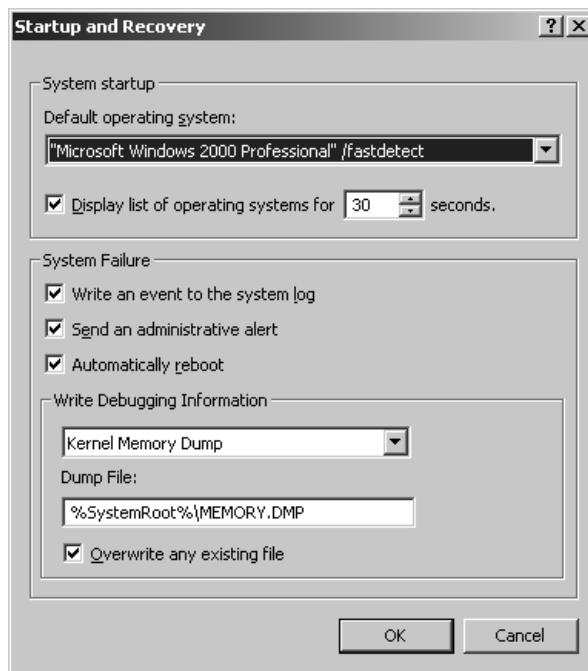
2. Double click “System” icon.
System Properties dialog will be displayed.



3. Click “Advanced” tab.



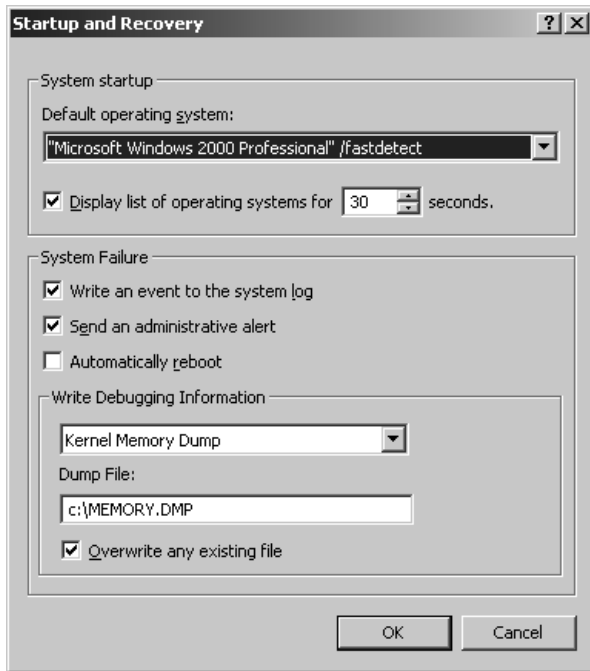
4. Click “Startup and Recovery...” button.



5. Enter the location where to store debugging information in the text box.

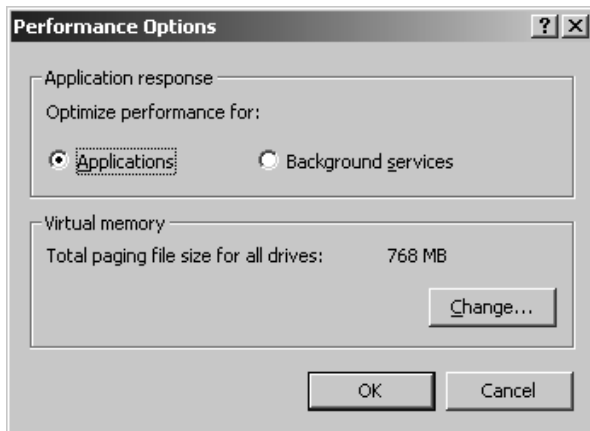
C : \MEMORY.DMP

Uncheck the check box for “Automatically reboot”.

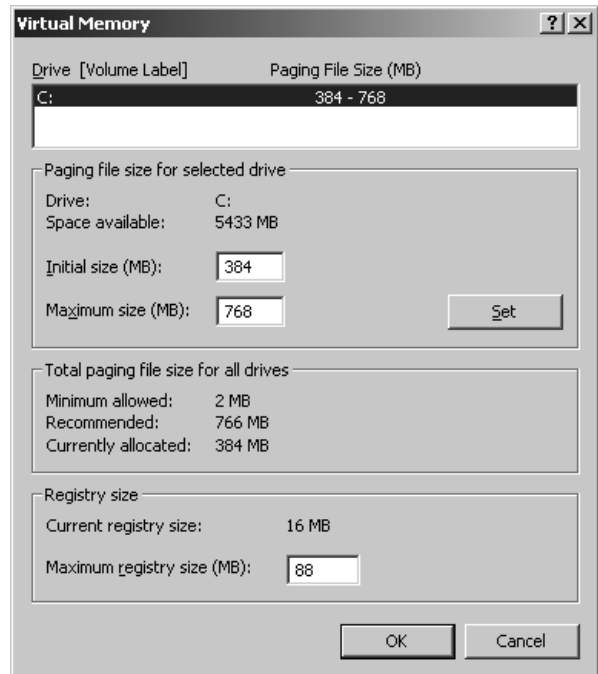


Click “OK” button, close the dialog.

6. Click “Performance Options...” button.

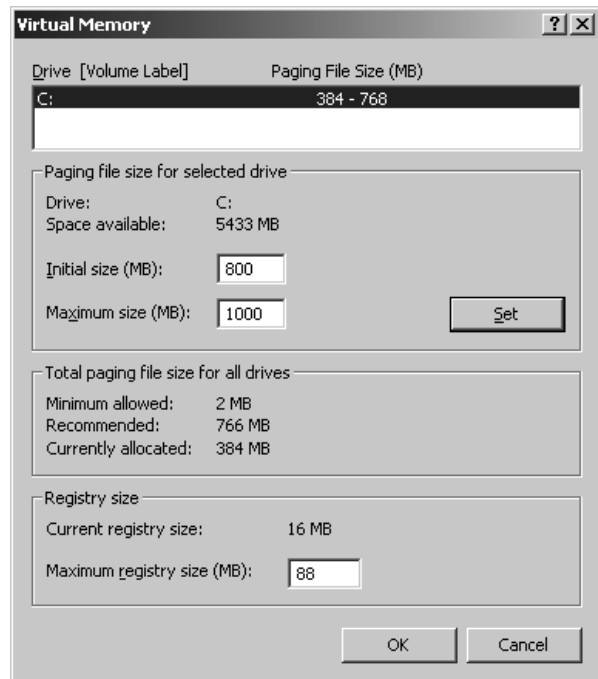


7. Click “Change...” button in “Virtual Memory” box.



8. Change “Initial size” of “Paging File Size of Selected Drive” box to a value higher than recommended size, and click “Set” button.

The size of the virtual memory is set approximately 1.5 times as much as the mounted memory size (**800 MB**).

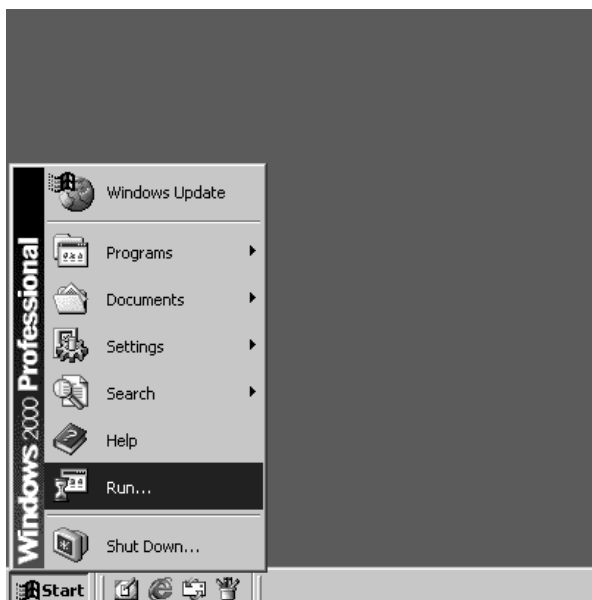


9. Click “OK” button.
10. Restart the computer.

4-4-9. Setting of Dr. Watson

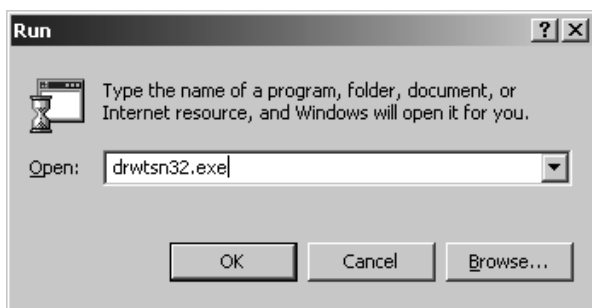
Dr. Watson is a debugger for application error. When it detects an application error, it performs diagnosis of DWM-S01NL/S02NL and records the diagnostic information (log). Following configuration is required to correct diagnostic information.

1. Click “Run...” from Start Menu.



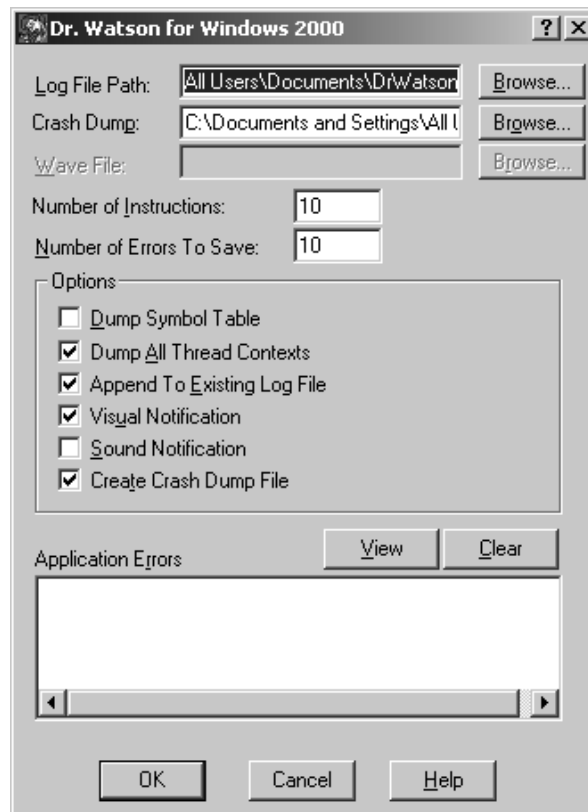
2. Enter “drwtsn32.exe” in “Open” box, and click “OK” button.

Dr. Watson dialog will be displayed.



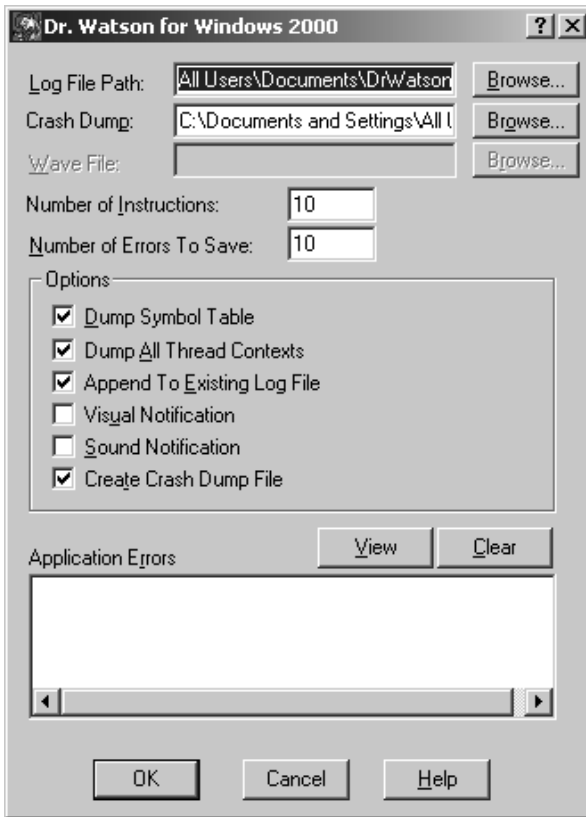
3. Specify the location where the diagnostic information is to be saved in “Log File Path” box.

Make sure the log file path is c : \Documents and Settings\All Users\Documents\DrWatson. Correct the file path if any different location is specified here.



4. Check the following check boxes in “Options” box.

- Dump Symbol Table.
- Dump All Thread Contexts.
- Append To Existing Log File.
- Create Crash Dump File.



5. Click “OK” button.

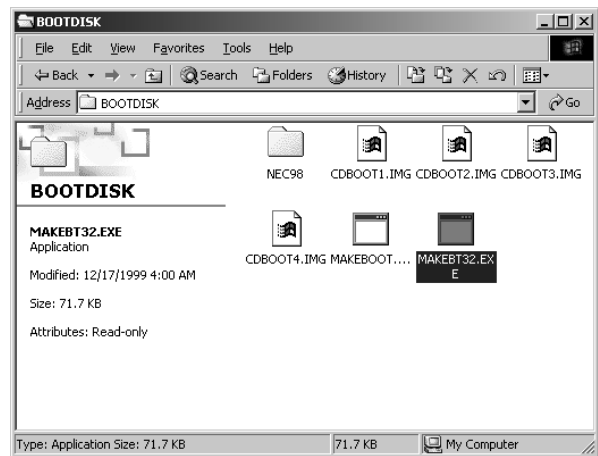
4-4-10. Creating of Windows 2000 Setup Boot Disk

In case the file required to operate OS is corrupted due to some reason and unable to start the system, “Setup Boot Disk” is needed to start and recover the system. Prepare this in advance.

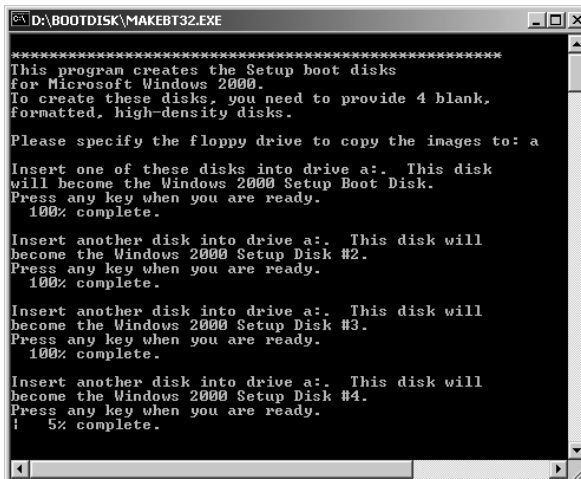
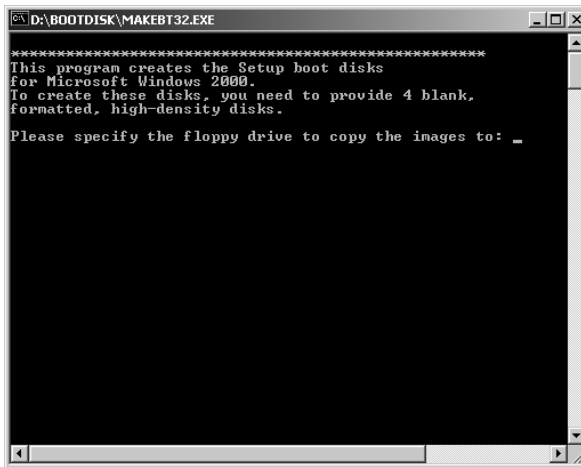
Note

4 floppy disks are necessary for this operation.

1. Insert Windows 2000 Professional CD-ROM into CD-ROM drive.
2. Double click **D:\BOOTDISK\MAKEBT32.exe**.



- Specify the floppy disk drive to where the files are copied, and then create the setup boot disk according to the given message.



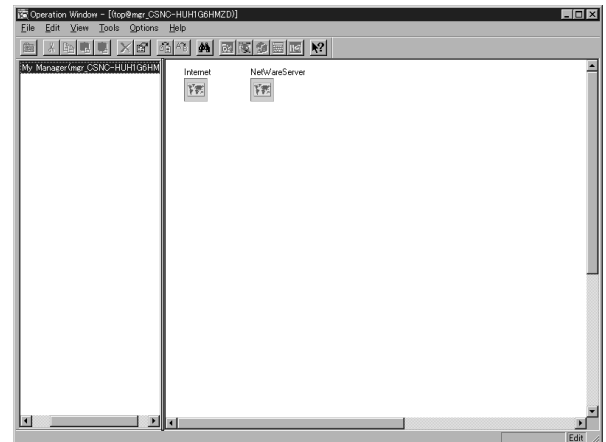
The following floppy disks will be created:

- Windows 2000 Setup Boot Disk
- Windows 2000 Setup Disk #2
- Windows 2000 Setup Disk #3
- Windows 2000 Setup Disk #4

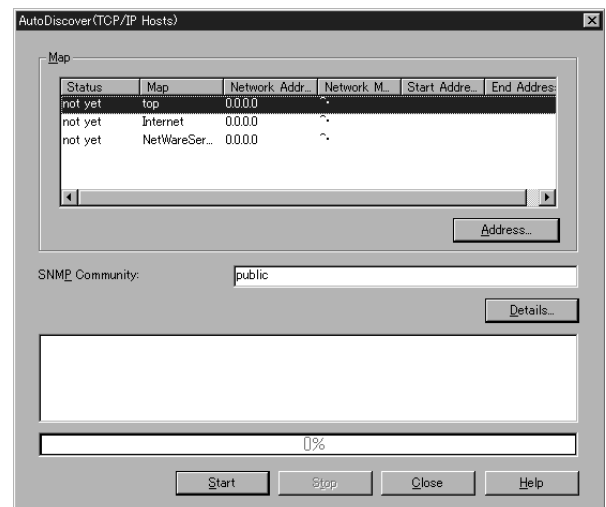
4-4-11. Setting of ESMPRO Server Manager

Set the following so as to monitor the status of your own machine on ServerManager.

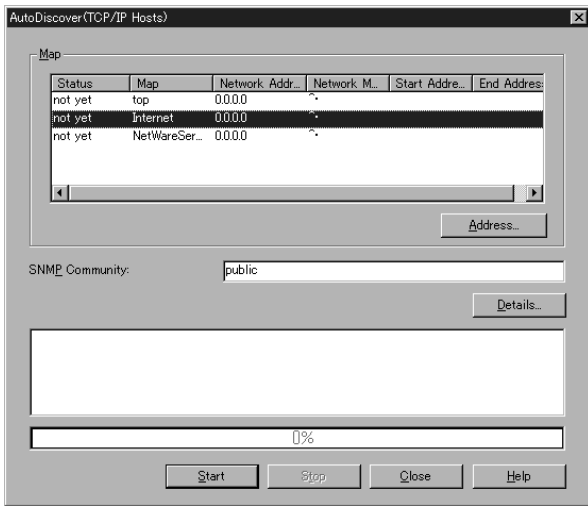
- Select “Start” → “Programs” → “NEC ESMPRO Manager” to start NEC ESMPRO Manager. Operation Window is started.



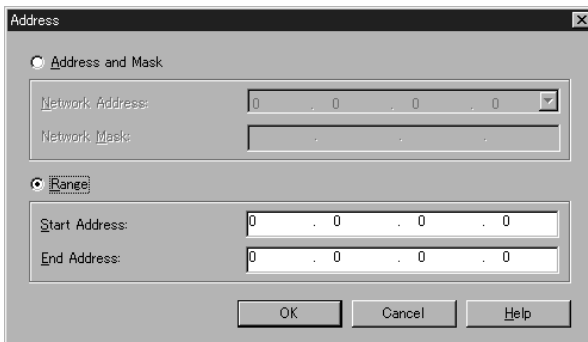
- Select “Tools” → “Autodiscover” → “TCP/IP Hosts” from the Menu. Auto Discover (TCP/IP) dialog will be opened.



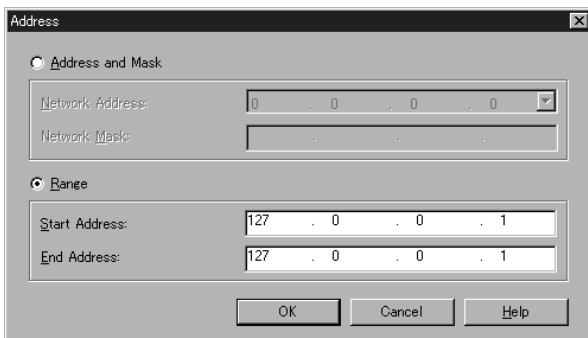
3. Click “Internet” from “Map”, then click “Address” button.
Address dialog will be opened.



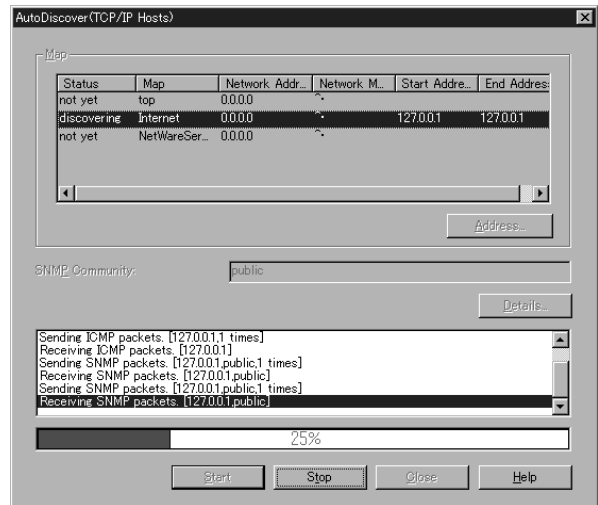
4. Click “Range” Radio button to select it.



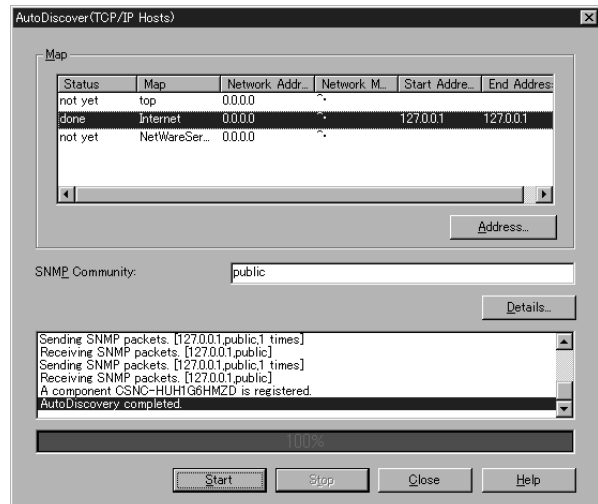
5. Enter “127. 0. 0. 1” in both Start Address and End Address boxes.



6. Click “OK” button.
Close the dialog.
7. Click “Start” button in Auto Discover (TCP/IP) dialog.
The destination for connection will be searched and recorded.



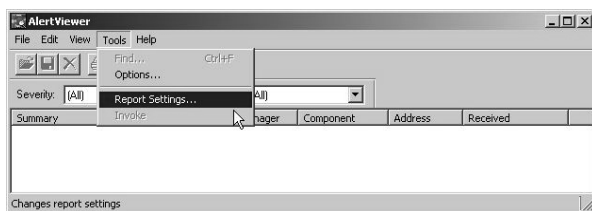
8. Click “Close” button when it becomes active.
Close Auto Discover (TCP/IP) dialog.



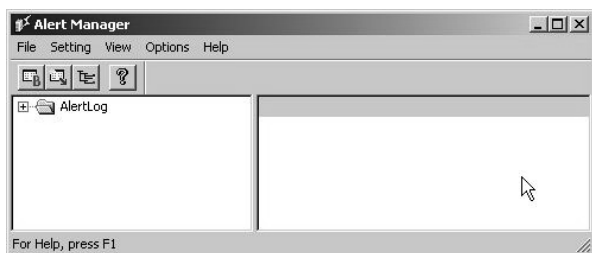
4-4-12. Reading of AlertManager Setting File

Read the alert setting information set in the factory in advance.

1. Select “Start” → “Programs” → “NEC ESMPRO Manager” to start NEC ESMPRO Manager.
2. Click “Alert Viewer” on Task Bar.
AlertViewer will be displayed.



3. Select “Tools” → “Report Settings...” from Menu.
AlertManager will be started.



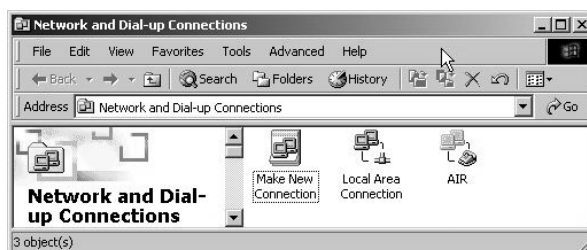
4. Select “Options” → “Restore” → “AlertManager Setting...” from Menu.
Open dialog will be opened.
5. Select AmsettingDMW.dat from ESMPRO folder in Installation CD-ROM, and click “Open” button.
Restore Alert Manager Setting dialog will be opened.
6. Click “OK” button.
Setting information will be read.

4-4-13. Setting the ESMPRO Report Service

The following describes for ESMPRO reporting service setting.

1. Preparation

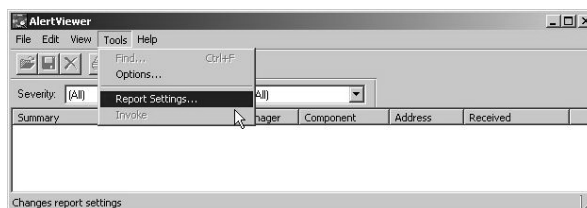
- (1) For Internet access through a modem, first complete the necessary setting.
- (2) For modem setting, refer to the modem instruction manual and the explanation by the provider.



We, suppose the connection AIR above is configured here.

2. E-mail setting

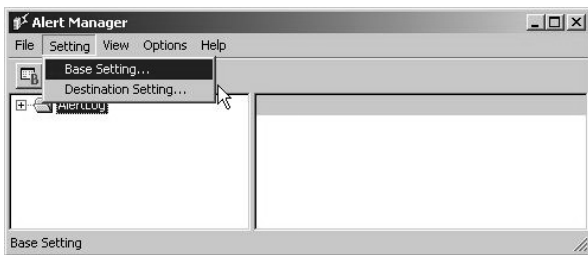
- (1) Select “Start” → “Programs” → “NEC ESMPRO Manager” to start NEC ESMPRO Manager. At the same time, activate AlertViewer is started in a minimized state.
- (2) Click “Alert Viewer” on Task Bar.
AlertViewer will be displayed.



- (3) Select “Tools” → “Report Settings...” from Menu.
AlertManager will be started.

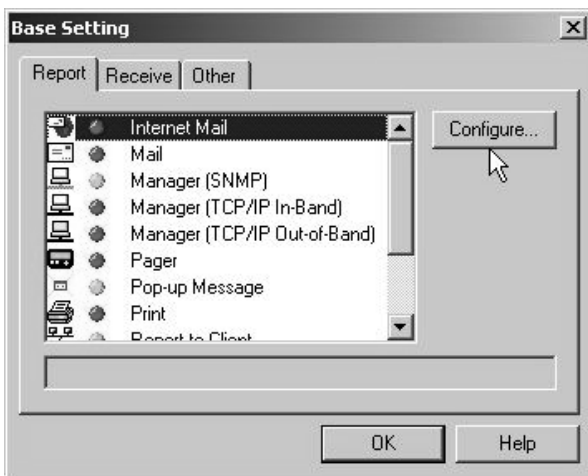


- (4) Select “Setting” → “Base Setting...” from menu.

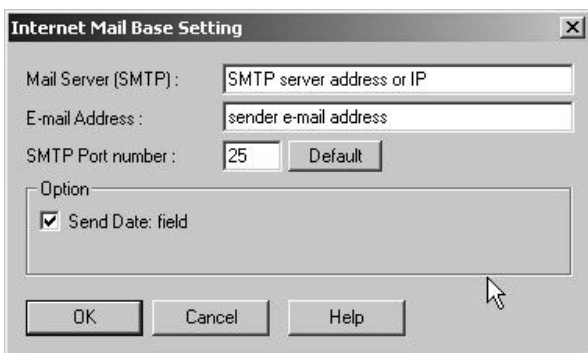


Base Setting dialog will be displayed.

- (5) Click “Internet Mail” to select it, then click the “Configure” button.



Internet Mail Base Setting dialog will be displayed.

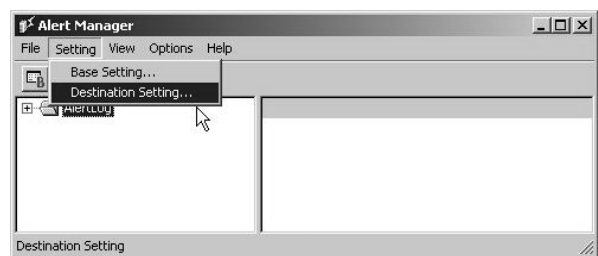


- (6) In the “Mail Server (SMTP)” column, enter the **address or IP of the SMTP mail server**. In the “E-mail Address”, **set the sender address** (a convenient address remaining on the mail. The user address is also acceptable) and click the “OK” button to close the dialog.

Note

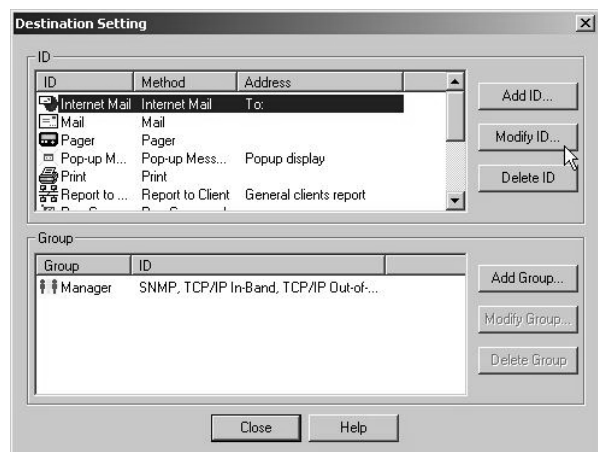
Click “OK”. The system tries to connect the newly configured mail server and checks if it exists on the network. If it is not reachable, the system reports an error and becomes unable to close the dialog. Configure an Internet connection prior to this procedure.

- (7) Also click the “OK” button to close the Base Setting dialog.
 (8) Click “Setting” → “Destination Setting...” from Alert Manager dialog menu.

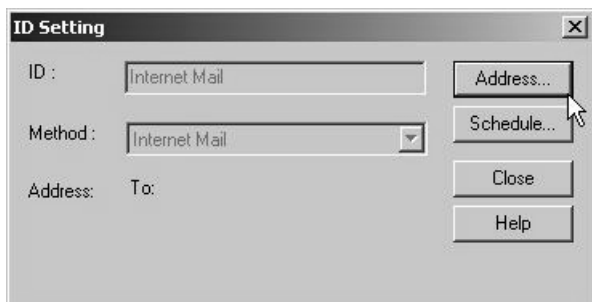


Destination Setting dialog will be displayed.

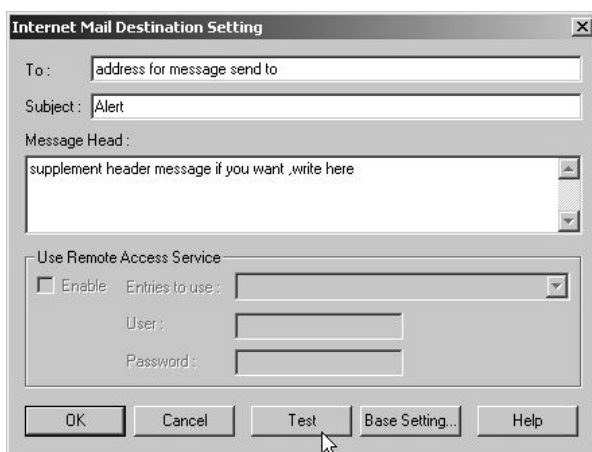
- (9) Click the “Internet Mail”, and click the “Modify ID...” button.



- (10) ID Setting dialog will be displayed. Then, click the “Address...” button.



Internet Mail Destination Setting dialog will be displayed.

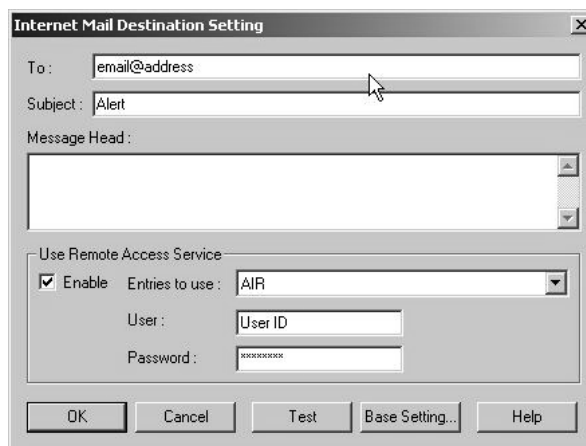


- (11) Enter the **Alert Message destination (E-mail address)** in the “To:” column.
Enter the information you want to add to the Alert Message (machine ID, user name, information which allows machine identification, etc.) in the “Message Head” (Optional).
At this time, click the “Test” button.
Via the SMTP Server you have previously set, make sure that you can send a mail to the “To:” address.
- (12) Click the “OK” button to close the Internet Mail Destination Setting dialog.
Close the ID Setting dialog as well.

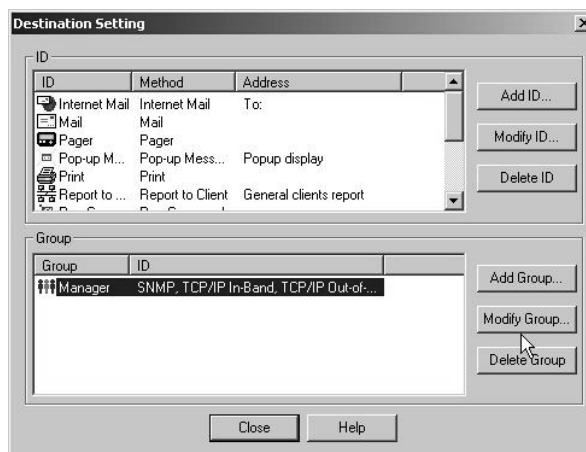
3. When connecting to a modem

- (1) When connecting through a modem, the modem must be activated when an Alert occurs to allow connection to the provider.

As shown in the below figure, check the “Enable” check box of “Use Remote Access Service” to select a modem setting you have set. Enter the ID and Password used for connection to the provider.

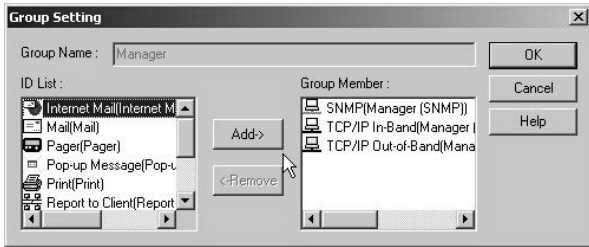


- (2) Click Manager from the “Group” column of the Destination Setting dialog, and click the “Modify Group...” button.

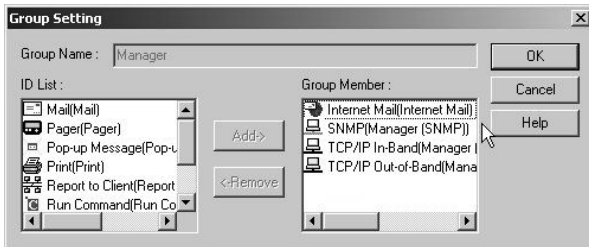


The Group Setting dialog will be displayed.

- (3) Select “Internet Mail” from “ID List:”, and click the “Add→” button.

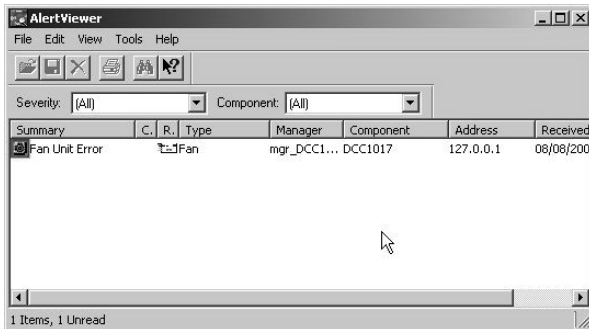
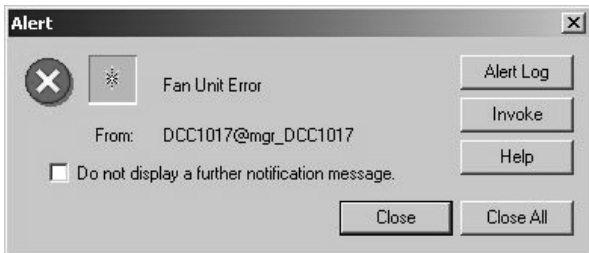


- (4) “Internet Mail” is added to “Group Member”.



- (5) For example, a case when a fan is forcibly stopped is shown below.

About one minute after forcibly stopping the fan, the following popup dialog appears and also the error log is recorded for the Alert viewer.

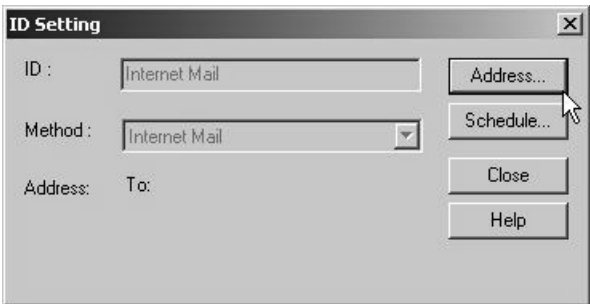


At the same time, an Alert Message is also sent to the mail address.

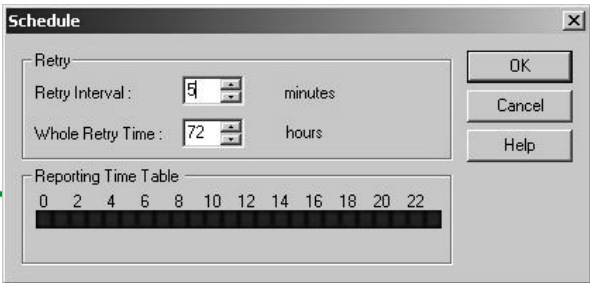
4. Setting the Alert reporting schedule

You can set the time setting for reporting, the number of retrials, and its time limit.

- (1) Clicking the “Schedule” button at the ID Setting dialog.



Schedule dialog will be displayed.



- (2) Specify the number of retrials in the “Retry Interval” box, and its duration in the “Whole Retry Time”. The default value for this setting can be used as is.
- (3) Edit the time table for email report in “Reporting Time Table” section.

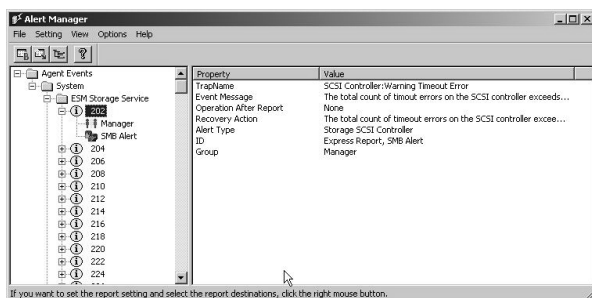
Blue area on the bar indicates time period that the application transmit reports.

The blue area becomes white by mouse click, and the application will not transmit any report during the period. The time table is initially set at one hour interval. Modify the setting appropriate to each services.

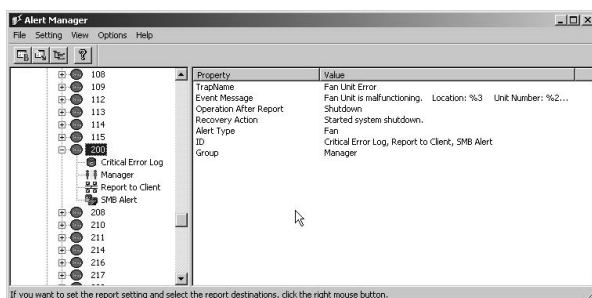
5. Setting the Alert Message reporting

Select “View-Agent Events” from the “Alert Manager” menu to display the Agent Event information, error, and the warning list. You can set reporting for each Event.

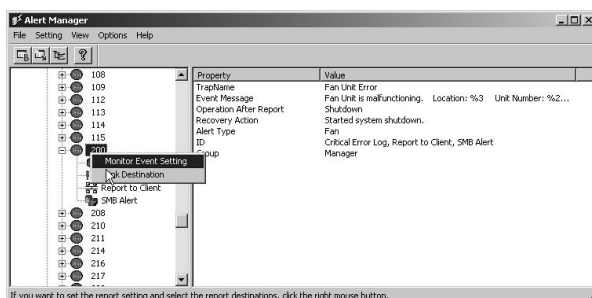
- (1) In the information of an error code 202 in the below figure, Manager and SMB Alert have been set.



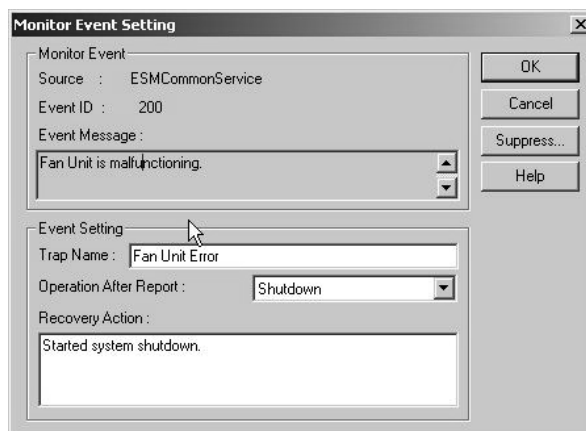
- (2) In the below warning 200, Critical Error Log, Manager, Report to Client, and SMB Alert are set.



- (3) Clicking the mouse right button for this error code displays the context menu.

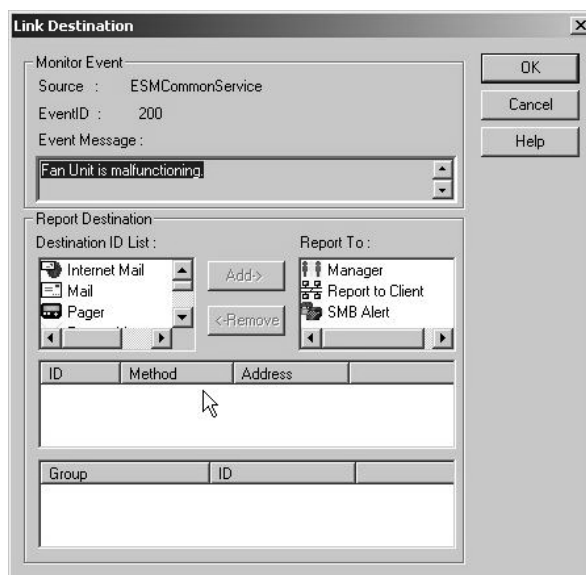


- a) Clicking the “Monitor Event Setting”.
Monitor Event Setting dialog below will be displayed.



You can set what action to be taken when an event occurs.

- b) Clicking the “Link Destination”.
Link Destination dialog below will be displayed.



Note

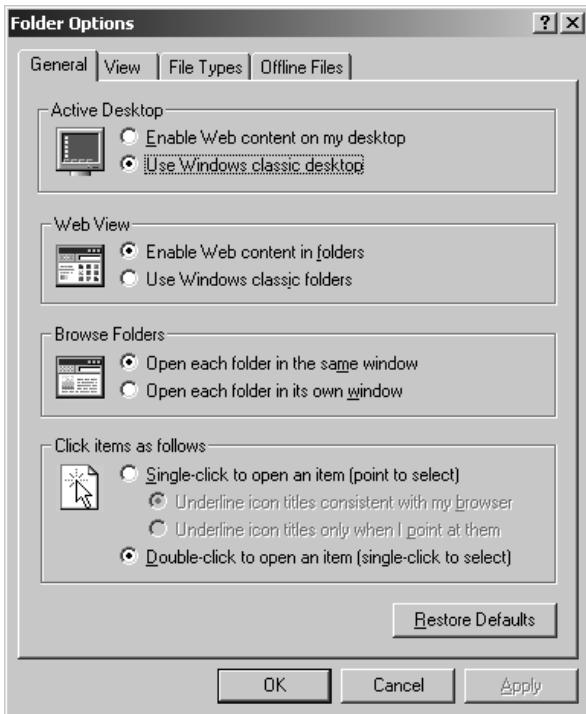
You can configure the reporting setting for each error. However, note that a disabled item at the Base setting section is invalid.

4-4-14. Other Additional Setting Items

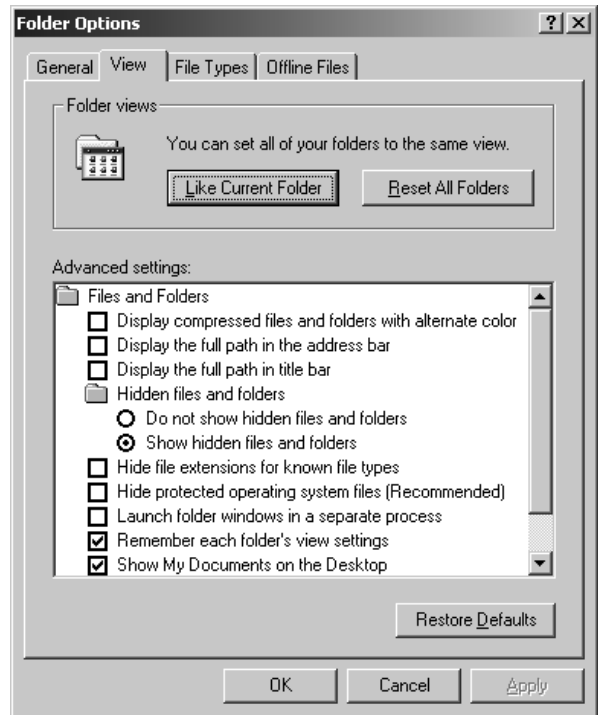
1. Changing of Explorer Option Setting

(Explorer will not show file extension in default setting. Change the optional setting to show the file extension.)

- (1) Start Explorer.
- (2) Select “Tools” → “Folder Options” from Menu.
Folder Options dialog will be started.



- (3) Click “View” tab.



- (4) Change the settings according to the following instructions :

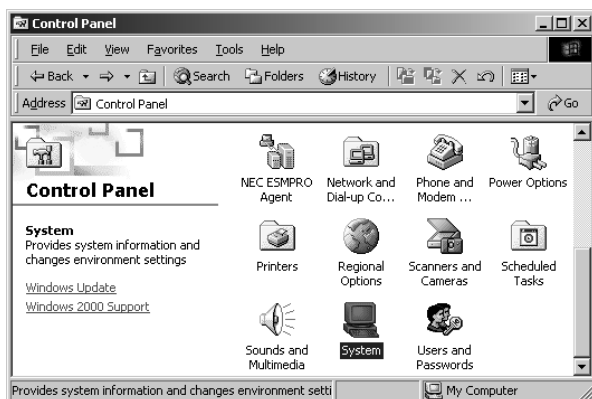
- Select “Show hidden files and folders” radio button.
- Uncheck “Hide file extension for known file types” check box.

- (5) Click “OK” button to close the dialog.

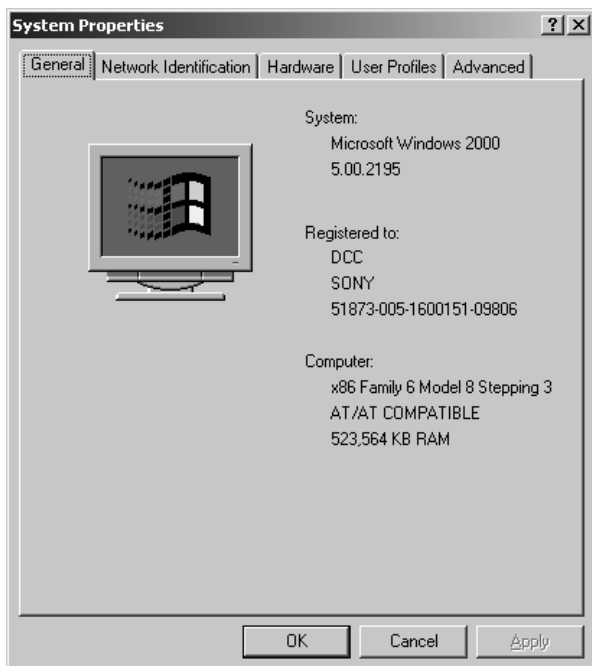
2. Cancel of Driver's Signature Check

The Driver developed by SONY has not been approved by Microsoft. Consequently, Signature verification is prompted for every installation. The following setting can be carried out so as to avoid such procedure.

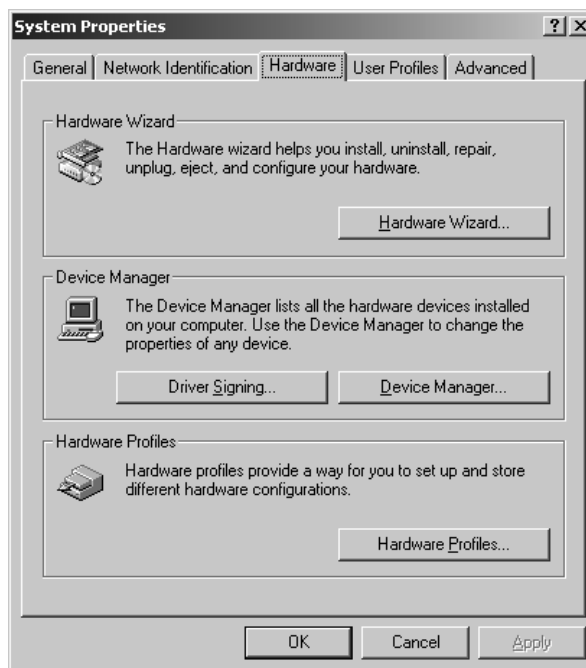
- (1) Select "Settings" → "Control Panel" from Start Menu.



- (2) Double click "System" icon.
System Properties dialog box will be displayed.



- (3) Click "Hardware" tab, and click "Driver Signing..." button.
Driver Signature Option dialog will be displayed.



- (4) Click "Ignore" of file signature checking items and select it.



- (5) Click "OK" button to close the dialog.

4-4-15. Installation of Board Drivers

Note

Be sure to install the board drivers before installing the AV processing board driver.

Use installation CD-ROM for this installation.

Insert installation CD-ROM into CD-ROM drive. This drive describes as D:\ below.

1. Installation of Fibre Channel Interface Board Driver
Double click **D:\FibreChannel\setup.exe**, and then install it according to the given message on the screen.
2. Installation of AV I/O and Control Panel drivers
Double click **D:\Proc\setup.exe**, and then install it according to the given message on the screen.
3. Installation of HDTV Interface Board Driver
Double click **D:\HDBBoard\setup.exe**, and then install it according to the given message on the screen.

4-4-16. Copy of Graphic Board Driver

Use installation CD-ROM for this installation.

Insert installation CD-ROM into CD-ROM drive. This drive describes as D:\ below.

1. Double click D :.
2. Click the right-side mouse button on “G400” folder, select “Copy” from Context Menu.
3. Click “My Computer” icon from Explorer.
4. Click Local Disk drive (C :).
5. Click “Program Files” folder.
6. Click “Sony” folder.
7. Click the right-side mouse button on “DMW” folder, click “Paste” from Context Menu.
8. Click “DMW” folder, then confirm that “G400” folder is copied under “DMW” folder.

4-4-17. System Initial Setup

Refer to Section 1-9 System Initial Setup for detail.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

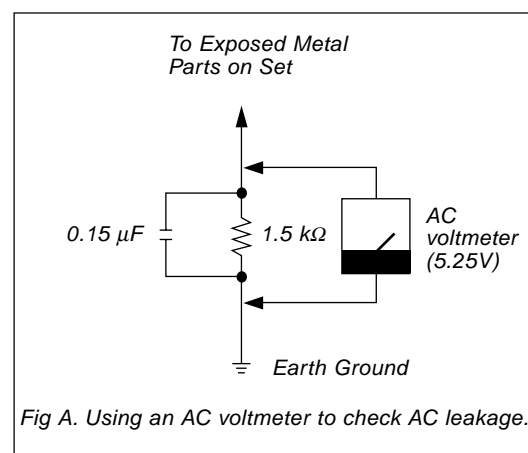


Fig A. Using an AC voltmeter to check AC leakage.

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DMW-S02NL (SY)
DMW-ST001 (SY) E
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